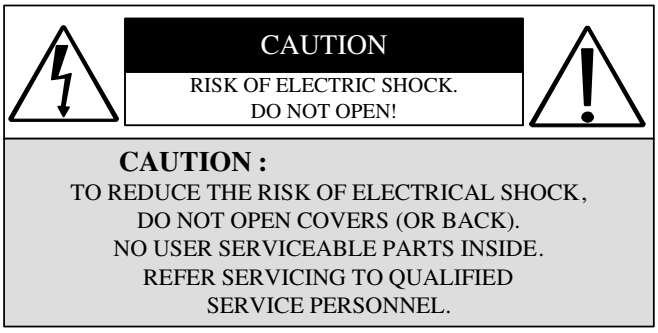
3M D&N Auto-Iris WDR Indoor&Outdoor BOX IP Camera

User Manual



It is advised to read the Safety Precaution Guide through carefully before operating the product, prevent any possible danger.

WARNING: This symbol is intended to alert the user to the presence of un-insulated "dangerous voltage".

CAUTION: This symbol is intended to alert the user to presence of important operating and maintenance (Servicing) instructions in the literature accompanying the appliance.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product. The power cord is the main power connection. Therefore, constantly plug and unplug of the power cord might result in malfunction of the product.

CE / FCC Mark.
This apparatus is manufactured to comply with radio interference requirement.

Do not install the product in an environment where the humidity is high.
Unless the product is waterproof or weatherproof, otherwise it can cause the image quality to be poor.

Do not drop the product or subject them to physical shocks.
Except for vandal-proof or shockproof product, otherwise it will result malfunctions to occur.

Never keep the product to direct strong light.
It can damage the product.

Do not spill liquid of any kind on the product.
If it gets wet, wipe it dry immediately. Alcohol or beverage can contain minerals that corrode the electronic components.

Do not expose to extreme temperatures.
Use the product at temperatures within 0℃ ~ 50℃.

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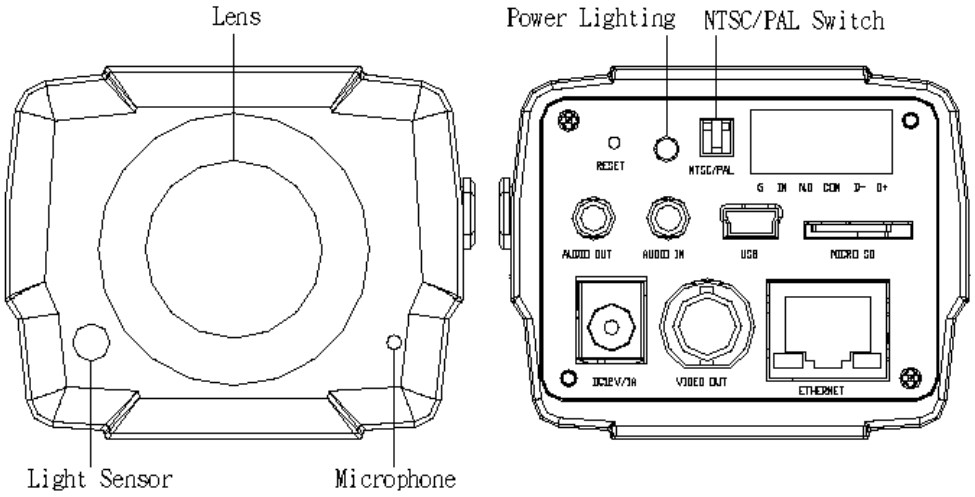
Product Feature

- 3 Megapixel image; resolution is up 2048x1536.
- Support True WDR image processing.
- Support H.264 / MJPEG codec, video quality is adjustable, video type can be divided into H.264_1、H.264_2(3GPP) and MJPEG
- Support G.711 codec, two ways audio is supported.
- Support high performance network transmission algorism, provide low-latency video and audio stream.
- Support event and schedule recording.
- Support multiple events search (alarm and motion) for basic and intelligent playback. (Function is provided by bundle software)
- Support motion detection; detection area and sensitivity are adjustable.
- Support multiple alarm and event trigger.
- Video stream bit rate, frame rate and resolution are adjustable.
- Multi-language supported.
- Support multi-level password and protection in order to provide the highest security.
- Support Micro SD Card or external USB storage media for pre-event and post-event recording image data, support for remote backup video files.
- Support remote setup, live view, recording, snapshot, ftp and firmware upgrade by web page or bundled software.
- Provide SecuUtility for searching and network setting up supportive device in LAN.
- Network protocol supported: HTTP, UPnP, DNS, DDNS, RTSP, RTP, RTCP, RTSP over HTTP, TCP/IP, UDP/IP, ICMP, DHCP, PPPoE, FTP, NTP, SMTP, Bonjour, Multi-Casting.
- Support auto re-connecting after network or power shortage.
- Free bundle 32 channel surveillance software. Support maximum 32 channels live view and 16 channels playback simultaneously.

Physical Description

Front/Rear Panel Description



- **Lens**
  Auto IRIS vari-focal lens is recommended to go with the camera. To fit in different lens, please adjust the ring screw accordingly to set correct focus.

- **Light Sensor**
  Detect incoming light sensor. While the incoming light is too low, image will display in monochrome automatically.

- **Microphone**
  Built-in microphone.

- **RESET**
  When system is frozen, please press the reset button and keep it depressed for 5 seconds, after the power light is blinking, then release the reset button, the system will finish rebooting procedure in one minute. When the power light is on; the device is booted up successfully.

- **Power Lighting**
  When power lighting on means device boots up successfully; power lighting off means there is no power input. When power lighting blinking means device operation system is being loaded or hardware resets.

- **NTSC/ PAL Switch**
  Please switch video out source to NTSC or PAL at pin 1. Switch up is for PAL video output; switch down for NTSC video output.

NTSC	X
PAL	X
1	2

- **Alarm I/O & RS485**
  To connect external alarm I/O devices, please refer to below for Alarm I/O pin definition. User can find a 4 pin and 2 pin connectors in product package.

G	IN	N.O	COM

D-	D+

  G: ground wire.
  IN: connect to alarm in device.
  N.O: connect to N.O(normal open) alarm out device.
  COM: connect point that corresponds to alarm in.
  D-: connect to external device, such as pan-tilt device or keyboard.
  D+: connect to external device, such as pan-tilt device or keyboard.

- **Audio Out**
  Connect to external audio devices for audio output, like speaker. Remote audio will output from this connector.

- **Audio In**
  Connect to external audio devices for audio input, like microphone.

- **USB**
  USB connector is for extending wireless function or external storage media; External storage media supports maximal 32 GB capacity.

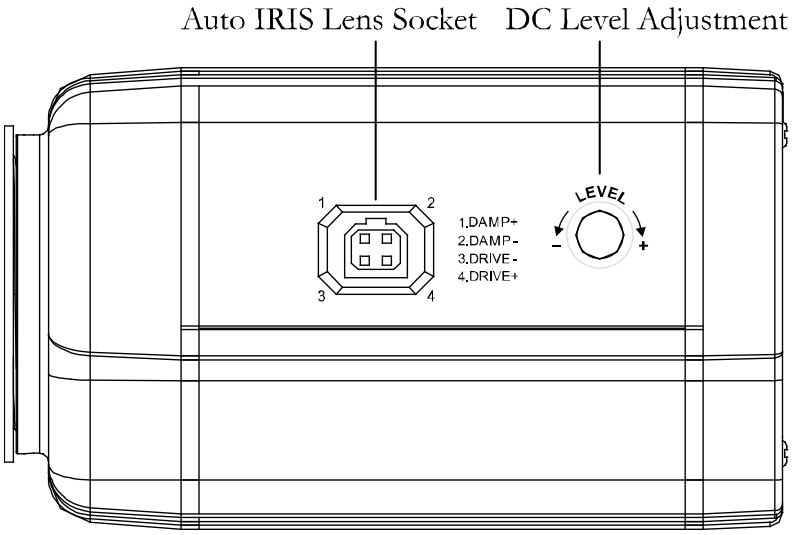
- **Micro SD**
  Support Micro SD card, the maximal capacity could be up to 32 GB. Device doesn't support Micro SD hot swapping, please reboot system after insert or remove Micro SD card.

- **12V DC/1A Power Connector**
  Connect to 12V DC power adapter.

- **Video Out**
  Slot for video out connector. User can find a BNC connector in product package.

- **Ethernet**
  Connect to Ethernet network.

Side Panel Description

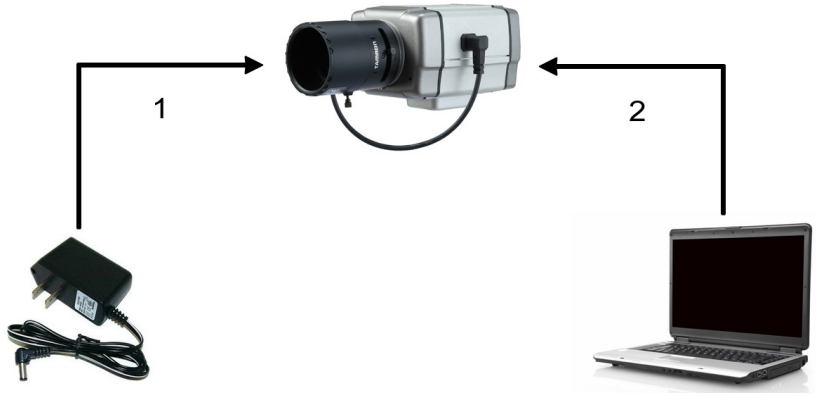


- **Auto IRIS Lens Socket**
  Connect to DC drive auto IRIS lens. When user switches to different lens, please check the pin definition first.

- **DC Level Adjustment**
  DC Level adjustment knob is used to adjust the aperture size of the level; to + (clockwise) direction to adjust the aperture becomes large, to – (counterclockwise) direction to adjust the aperture becomes small. The adjustment needs 2-3 seconds to take effective, so please wait for aperture stable until next adjustment.

Quick Installation

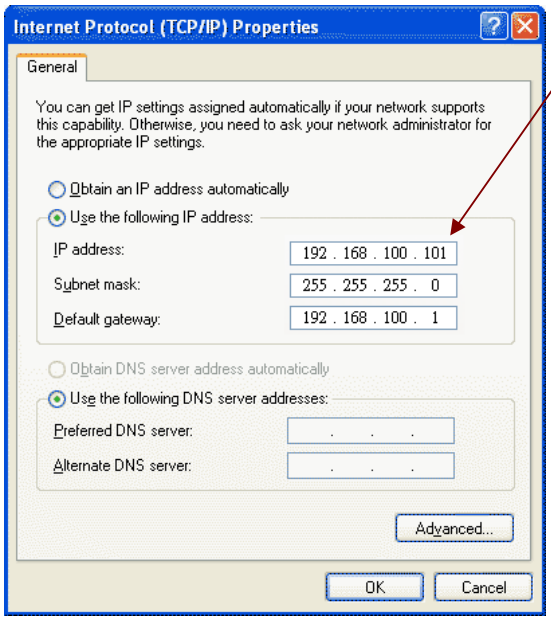
Basic Connection



(1) Connect the 12V DC adaptor to the power jack of the IP camera.
(2) Use Ethernet cable to make connection from the Ethernet 10/100 RJ45 socket of IP camera to the PC.

Network Setting

After completing the basic hardware connection, make sure that the PC and the IP camera IP address are both in the same network segment. Example: Setup preset IP camera IP to 192.168.100.100 and configure your PC IP address as the figure description below.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 100 . 101
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 100 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Setup format：

IP Address：192.168.100.xxx

Subnet Mask：255.255.255.0

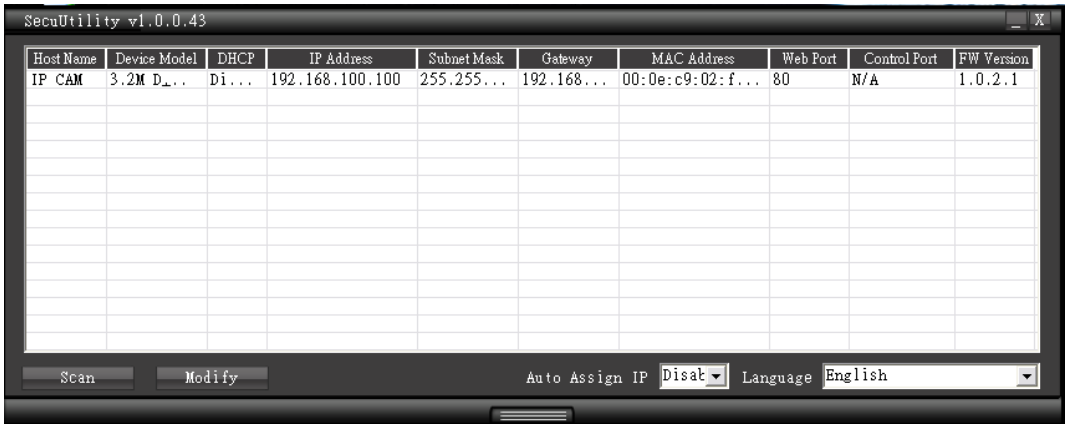
Default Gateway：192.168.100.1

※Note

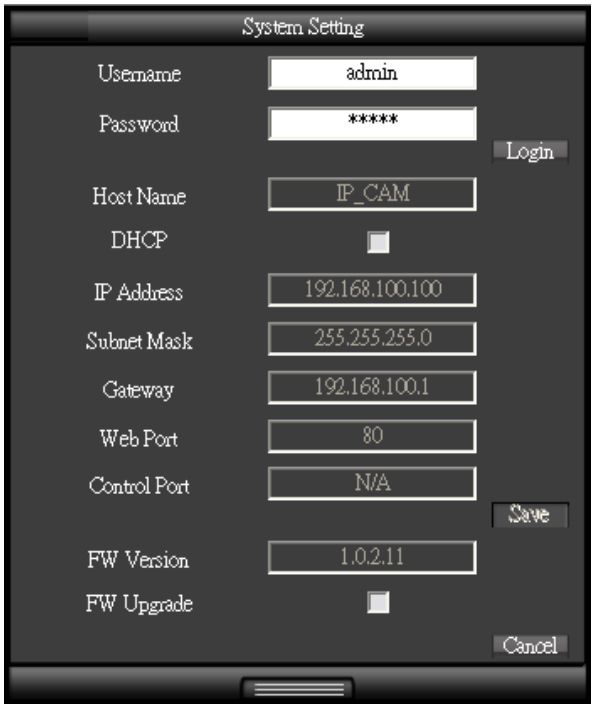
xxx address ranges from 1~254, please avoid using "100" which has been used by IP camera.

SecuUtility

(1) Please install SecuUtility from the product CD. (Please refer to chapter 3.3.1 for installation procedures.)
(2) Start SecuUtility.
(3) After starting SecuUtility, the program will automatically search and display supportive devices in local LAN.



(4) Choose which device you would like to access, the default IP address on the device is 192.168.100.100
(5) Double click on the IP address, will automatically open the selected device web image.
(6) Please select on the device you would like to modify its setting and click “Modify”.



- Please fill in username and password. (Default username and password is admin/ admin)
- User can manually modify system setting: connection type and web port. Please click “Save” button before complete change.
- SecuUtility provides firmware upgrade, please click on firmware upgrade checkbox, and select new firmware (.img) in pop-up window. System will automatically start firmware upgrade.

Above system setting function only works in firmware version is later than V1.x.x.x. If the firmware version of the device is not supportive, please notify your system administrator for firmware upgrade.

(7) Click “Scan” to refresh searching supportive devices in local LAN.
(8) If there is no DHCP server in local LAN, SucuUtility can automatically assign IP address for connected network device. When SecuUtility searches network device which IP address is 192.168.100.100 in LAN, system will automatically assign an IP address of which is the same network segment as client PC. To enable this function, please “Enable” on Auto Assign IP item. Please notice that **DO NOT** enable this function when there is already a DHCP server in LAN in case of IP conflict issues.

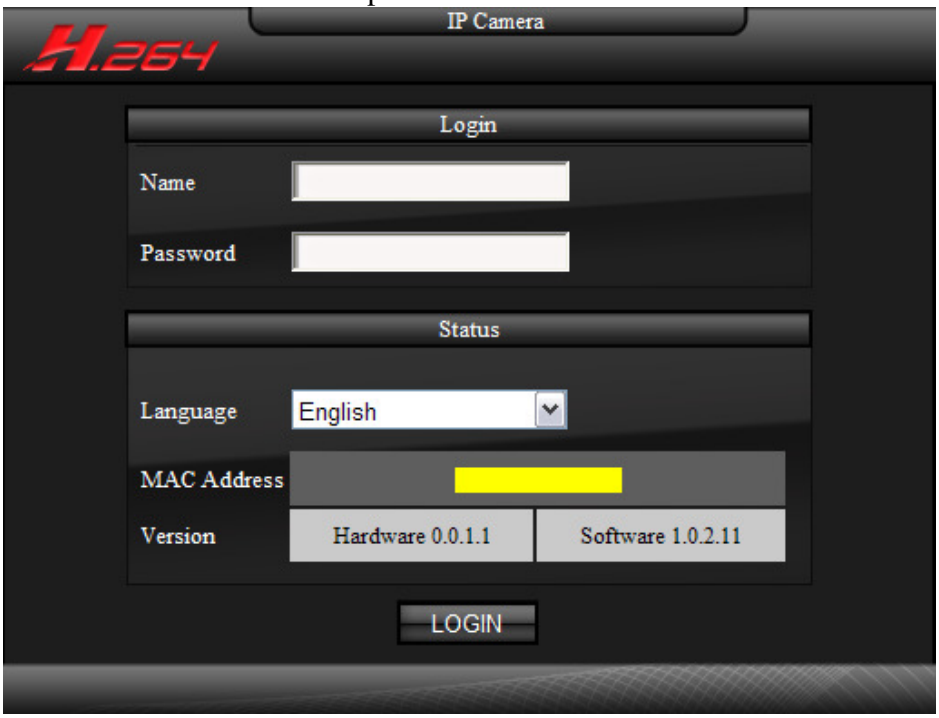
Device Login

Once you have logged in, you will see a pop-up information bar requiring your attention for installing ActiveX Control, use mouse right click to install ActiveX control.

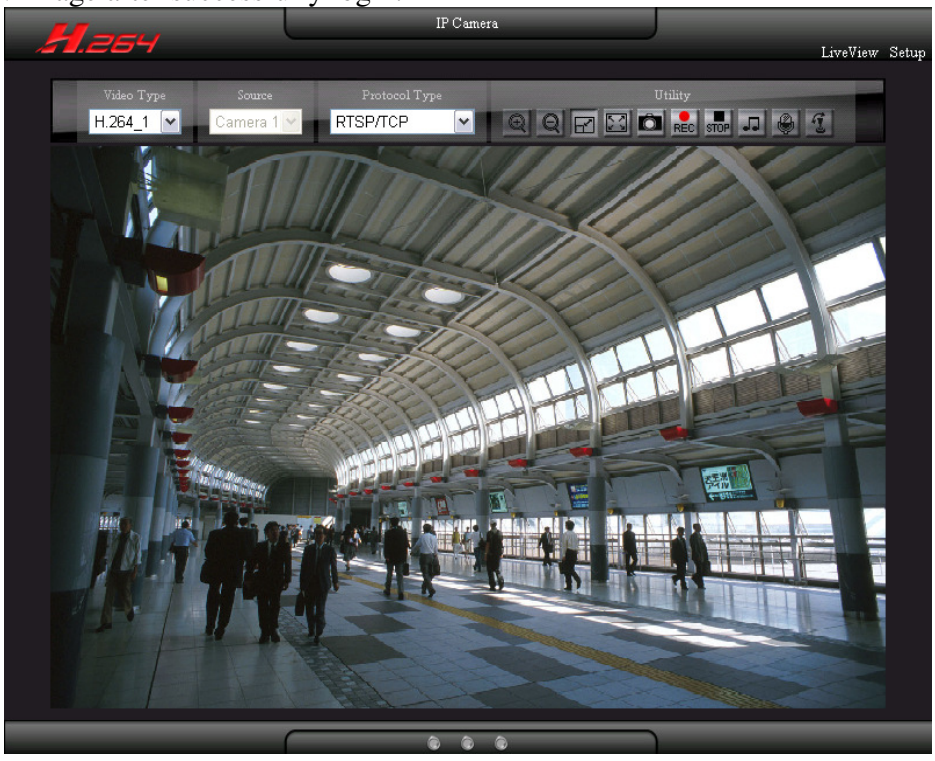
Then a window will appear asking you to confirm whether or not you want to install the ActiveX control. Select “Install”.

Internet Explorer - Security Warning
Do you want to install this software?
Name:
Publisher:
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

After Active control has been successfully installed, website login page appears on the screen. Login device with default username and password: **admin / admin**.



Live view image after successfully login.



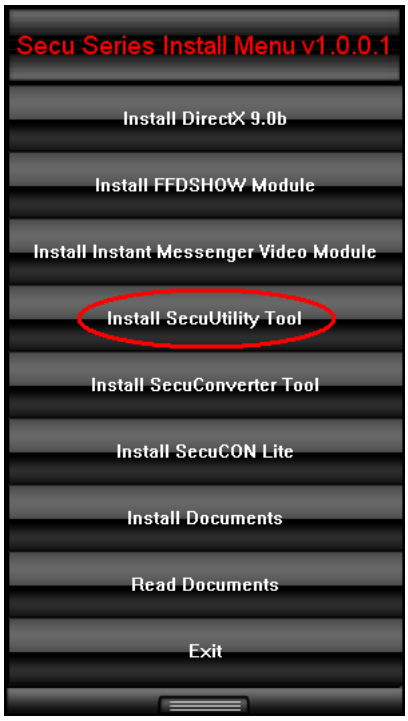
If user cannot see video stream with H.264 format, please install FFDshow decode software from installation CD.

Software Installation

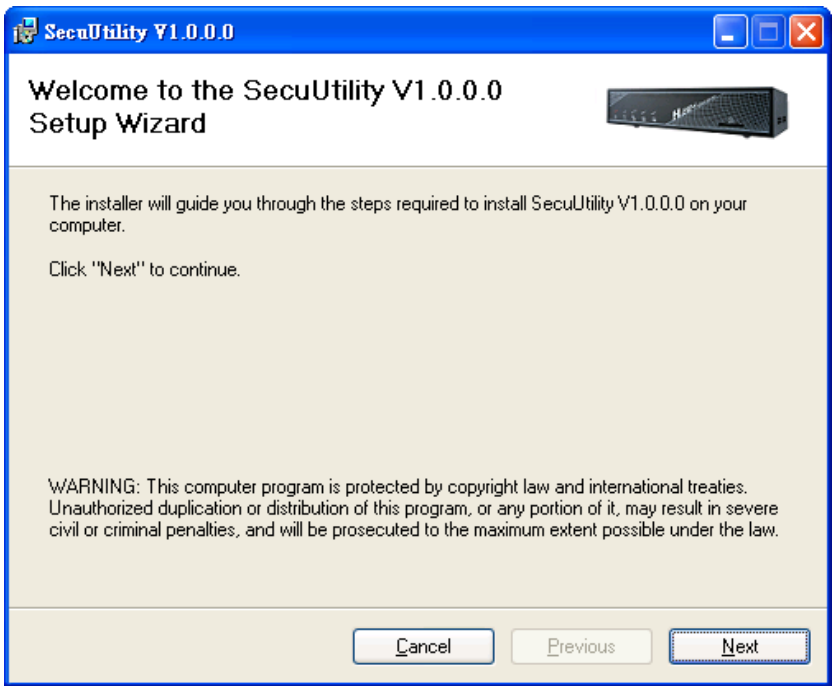
Please install following software from installation CD.

Install SecuUtility

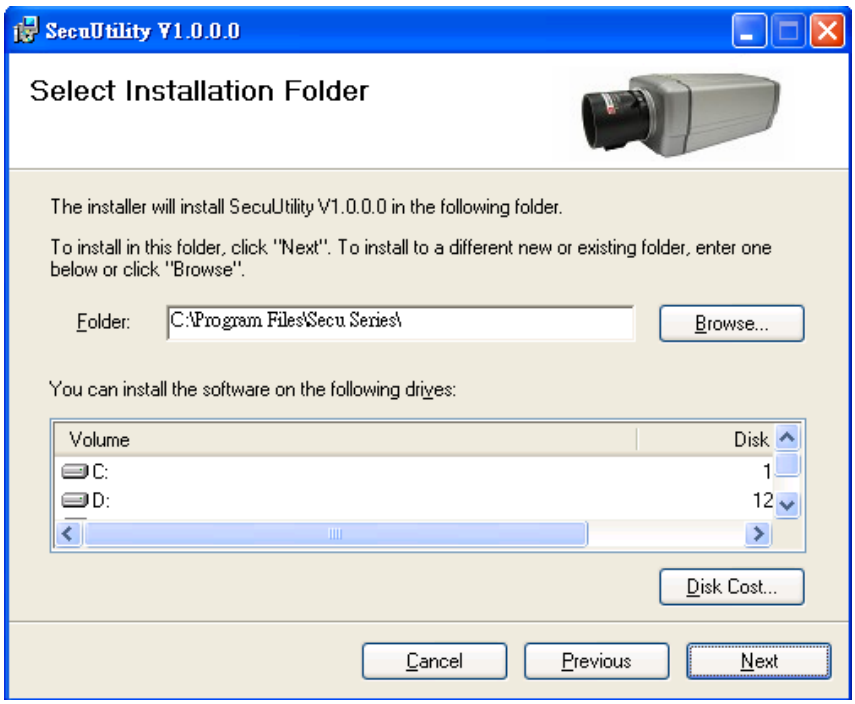
(1) Click Install SecuUtility Tool



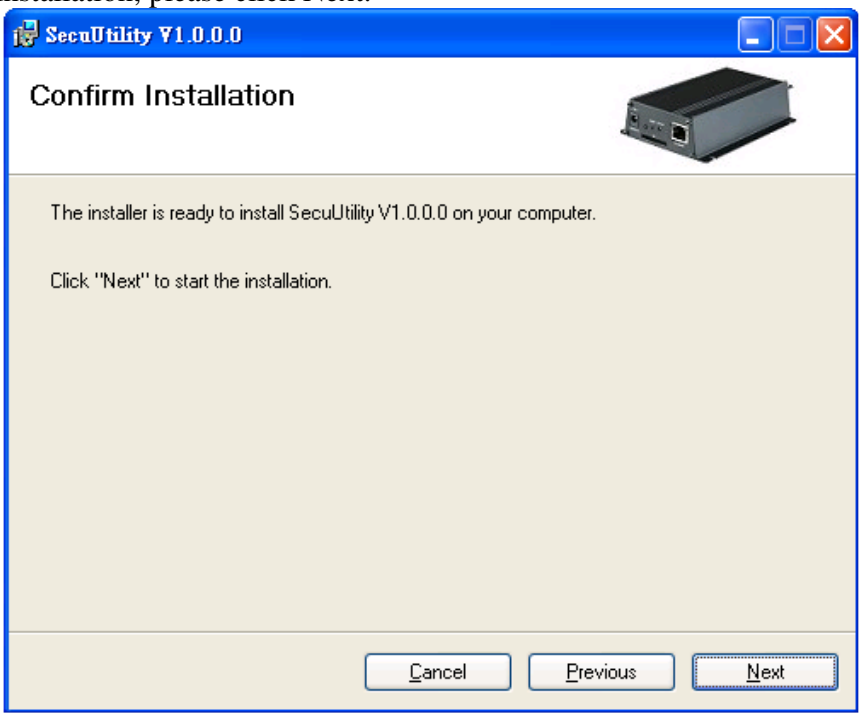
(2) Click Next.


SecuUtility V1.0.0.0
Welcome to the SecuUtility V1.0.0.0 Setup Wizard
The installer will guide you through the steps required to install SecuUtility V1.0.0.0 on your computer.
Click "Next" to continue.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
Previous
Next

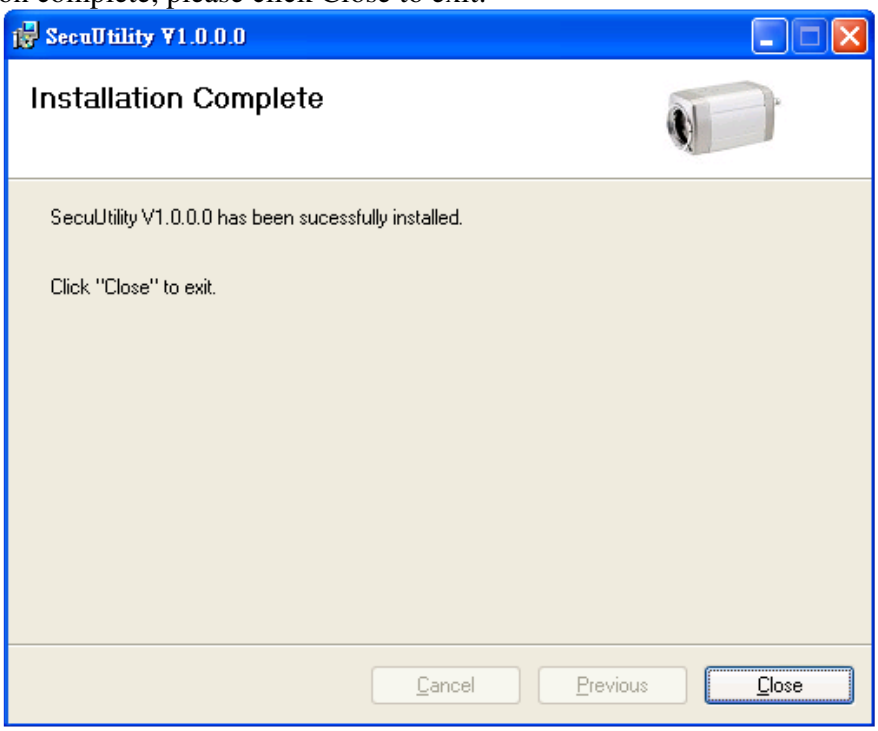
(3) Select Installation Folder.



(4) Confirm Installation, please click Next.



(5) Installation complete, please click Close to exit.

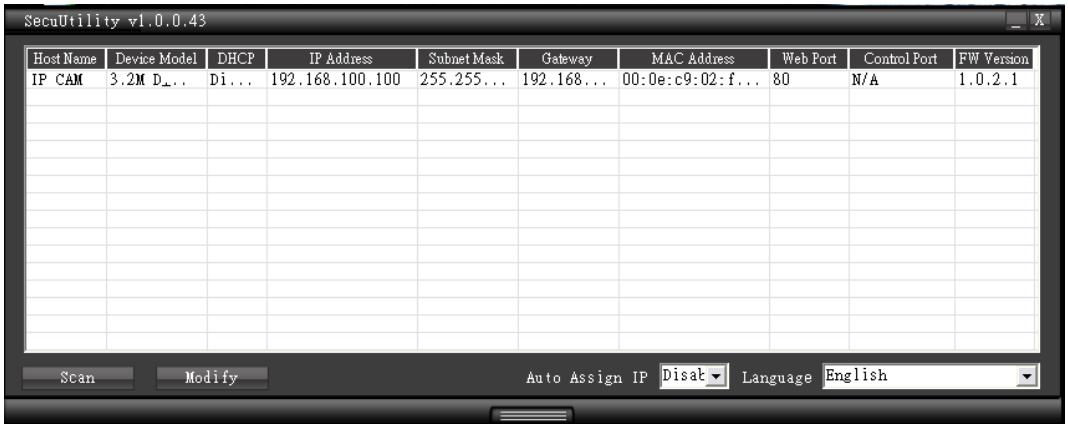


Recommended Computer Equipment

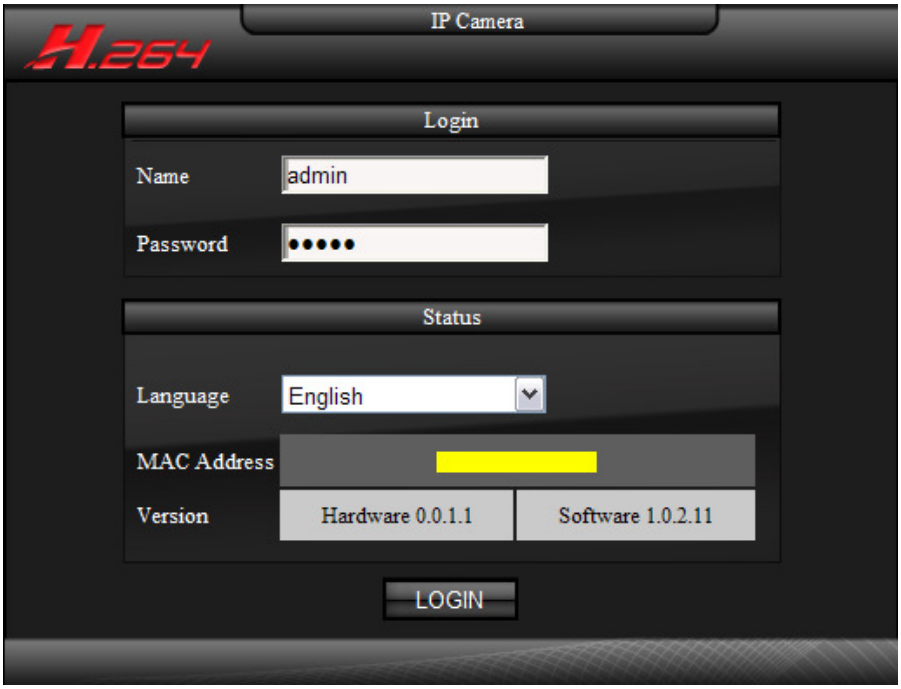
CPU	Intel® Core 2 Due E7200 or above
RAM	1GB or above
Audio Card	Needed
Operation System	Windows 2000, Windows XP SP2 and above, Windows Vista, Windows 7
Browser	IE6 SP2 and above

System Configuration

1. User Login

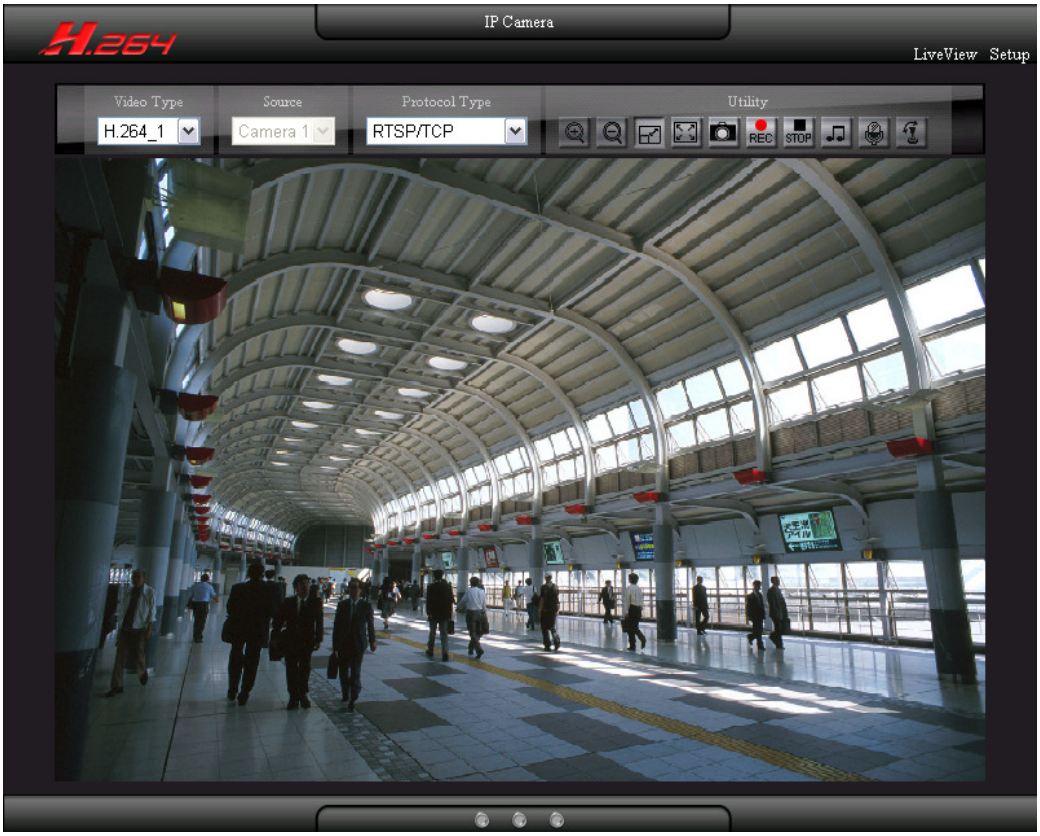


One minute after the device is powered on, please start SecuUtility. The program will automatically search and display supportive devices in local LAN. Please click on the device you would like to access, and then enter login page of the device.
Login device with default username and password: **admin / admin**.



User can switch to preferred language to login system. Also, device information such as MAC address and hardware and software version, displays in login page.

2. Live View Page



2.1 Video Type

Video type can be divided into H.264_1、H.264_2(3GPP) and MJPEG.

2.2 Source

Device receive single camera source. This item is unchangeable.

2.3 Protocol Type

Select image streaming transmission protocol.

- **RTSP/ TCP**
  Choose this item while the network is under low bandwidth. Video and audio streaming transmits through network TCP layer.
- **RTSP/ UDP**
  Choose this item to get smooth live streaming. Video and audio streaming transmits through network UDP layer.

※NOTE:

(1) When the network environment is not in LAN, please choose RTSP/TCP protocol type to obtain image.

(2) RTSP / UDP protocol is not applicable for different network segments.

- **RTSP over HTTP**
  Video and audio streaming transmits through network TCP layer via HTTP port.

2.4 Utility

■ **Zoom In**

Click on the button to zoom in image. Image can zoom 8 times for maximum. To return back to normal image size, please click on zoom out button.

■ **Zoom Out**

Click on the button to zoom out image. The button has no effect when the image has back to original size.

■ **Stretch**

When image resolution greater than 720x480, click on the icon to adjust image size to 720x480. To return back original size, please click on the button again.

■ **Full Screen**

Click on the button or double click on the image, the full screen mode will be activated. Double click on the image can return to standard mode.

■ **Snapshot**

Click on the button, the image will be snapshoot, all image taken will be stored in default path., regarding the default path, please see chapter 3.6.2. (Advanced setting)

■ **Recording**

Click on the button to start recording. Record file will be stored in default path. Regarding the default path, please see chapter3.6.2. (Advanced setting) Recording file is cut every 5 minutes; when the remaining space is less than 1GB or system setting is changed, recording will automatically stop.

■ **Stop Recording**

Click on the button to stop recording.

■ **Audio**

Click on the button to play audio; click again to stop playing.

■ **Broadcast**

Click on the button to start broadcast, click again to stop broadcasting.

■ **PTZ**

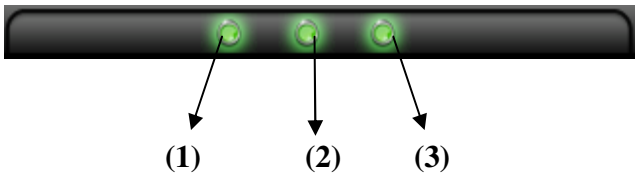
Click on the button to start PTZ control panel, click again to hide the panel. Before operating this panel, please make sure that the DigitalZoom function is enabled and RS485 has been set correctly; please refer to chapter 3.1.3、3.2.1、3.6 for detail. Right-click on the control panel to display quick menu, select the digital zoom mode for control image direction.

➢ Direction Control

Control the angles and direction of camera, with up, down, left, right, up left, up right, down left, and down right. Press a direction button; camera will rotate in this direction until releasing the button. The middle button is for back to home.

2.5 Light Status

The lights from left to right are recording, audio and broadcast function status.



(1) Recording Status

It is off by default, click on recording button, light will keep flashing; click on stop recording button, light will be off.

(2) Audio Status

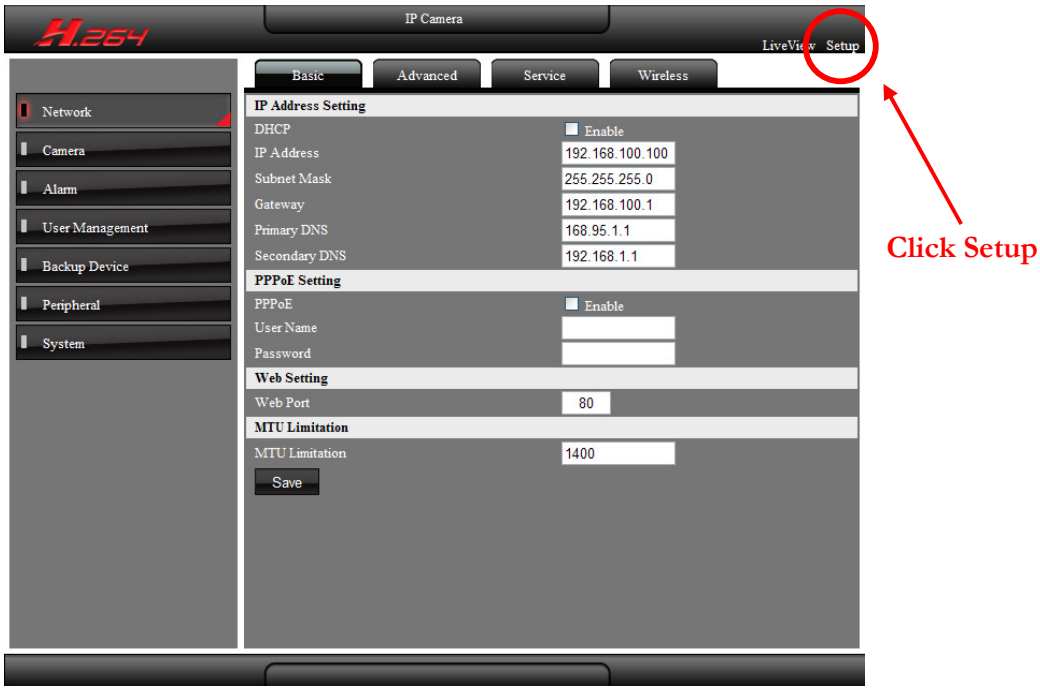
It is off by default; click on audio button to enable audio function, light will keep flashing; click on the audio button again, light will be off.

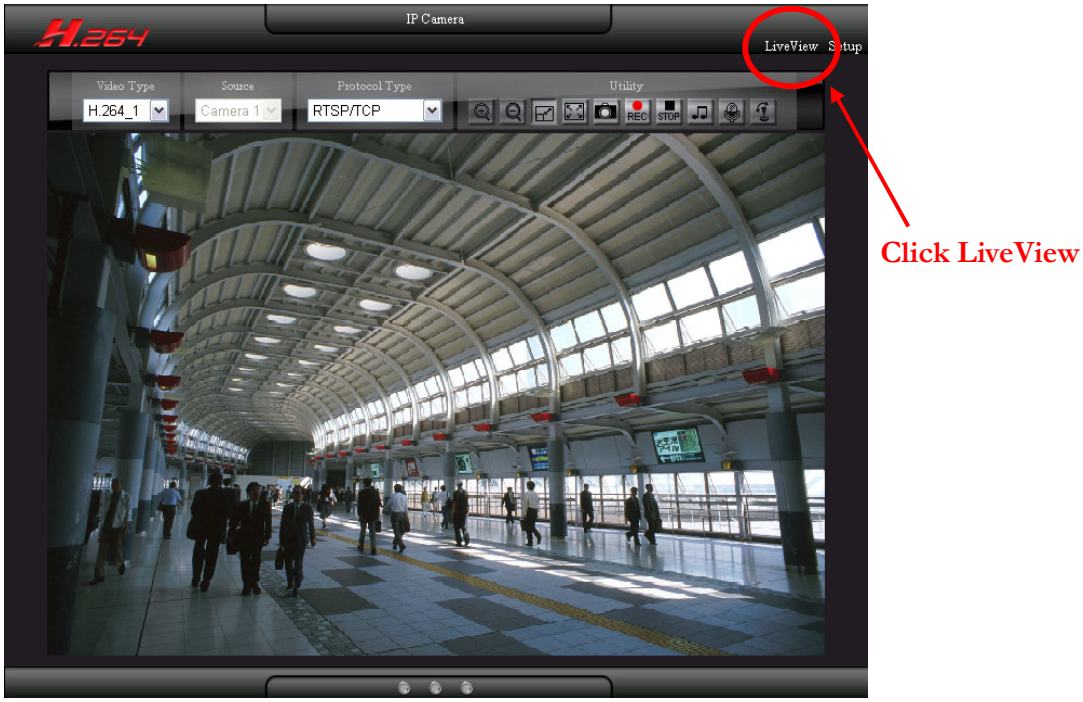
(3) Boradcast Status

It is off by default; click on broadcast button to enable broadcast function, light will keep flashing; click on the broadcast button again, light will be off.

3. Setting

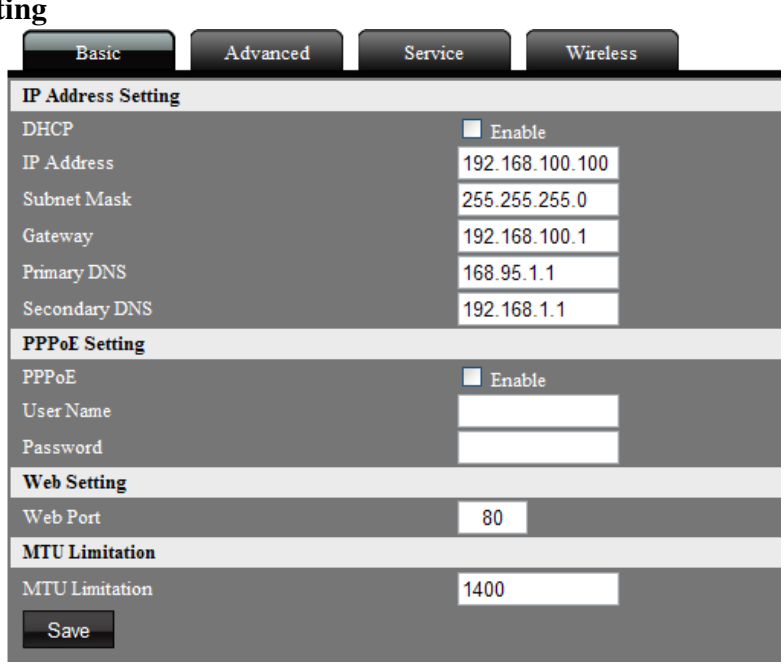
Click on Setting" on the top right corner of the web page to configure the device, click on "LiveView" to return back to live view image.





3.1 Network Setting

3.1.1 Basic Setting



■ **IP Address Setting**

User can setup device IP address.

- **DHCP**
  Click on enable to activate DHCP; the device will get IP address from DHCP server.
- **IP Address**
  Enter IP address for the device.
- **Subnet Mask**
  Enter a subnet mask of the device, If IP address of this device is changed, adjust the subnet mask accordingly.
- **Gateway**
  Enter the IP address of the gateway (the router).
- **Primary DNS**
  Define the primary DNS server IP address. This is used for identifying this device by name instead of IP address.
- **Secondary DNS**
  The IP address of the secondary DNS server; it will be used once the primary DNS server fails.

■ **PPPoE Setting**

Connect the device to internet by PPPoE through ISP.

- **PPPoE**
  Click on enable to activate PPPoE function.
- **User Name**
  Enter the user name of the ISP account.
- **Password**
  Enter the password of the ISP account.

■ **Web Port Setting**

Setup device web port number, default is 80. To change to another port number, take 8080 for instance, set hyperlink format as below:

http://192.168.100.100:8080

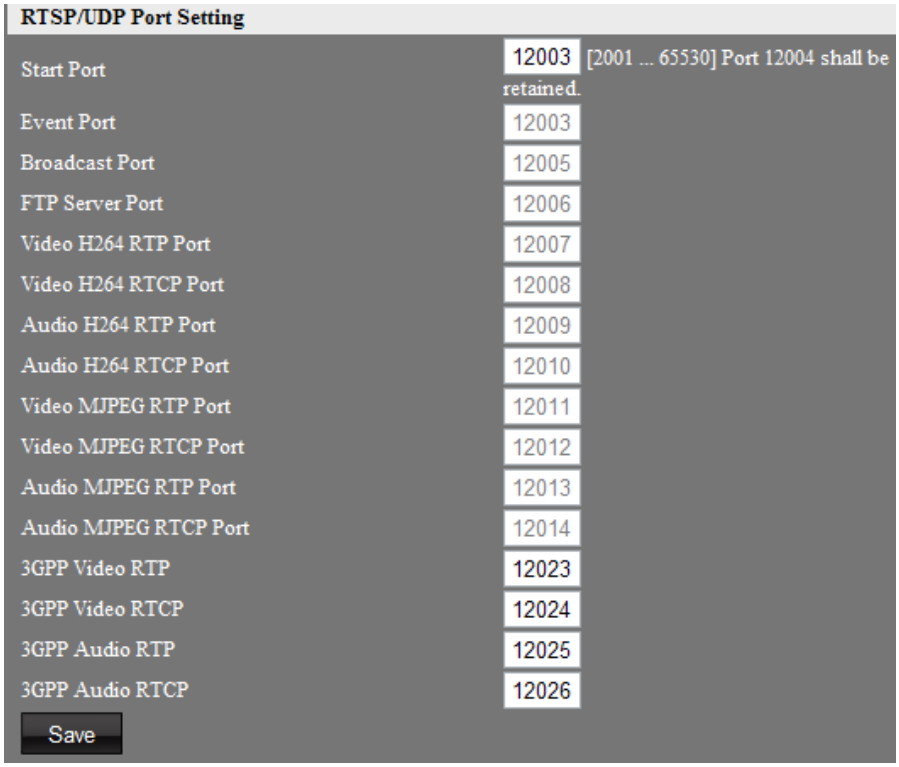
Do not duplicate web port with advanced ports. Recommended setting range is from 1000 to 65535.

■ **MTU**

MTU, Maximum Transmission Unit, is the value that transmitting package that can pass through network protocol. Set this value to prevent data unable to deliver during cross network domain or insufficient bandwidth environment.

3.1.2 Advanced Setting

When image protocol type is set as RTSP/ UDP, below advanced ports will use to transmit video and audio streaming.



■ **Start Port**

Define the RTSP/UDP ports segment of the device. Setting range starts from 2001 to 65530. Port 12004 shall be retained. RTSP/UDP ports only set as continuous port numbers. Except start port and 3GPP serial ports, the other ports are set automatically by system.

■ **Event Port**
Port for sending event message (alarm and motion detection).

■ **Broadcast Port**
Port for broadcasting audio stream.

■ **FTP Port**
Port for transferring files to client PC.

■ **Video H.264 RTP Port**
RTP port for sending video stream of H.264 media session.

■ **Video H.264 RTCP Port**
RTCP port for sending video stream of H.264 media session.

■ **Audio H.264 RTP Port**
RTP port for sending audio stream of H.264 media session.

■ **Audio H.264 RTCP Port**
RTCP port for sending audio stream of H.264 media session.

■ **Video MJPEG RTP Port**
RTP port for sending video stream of MJPEG media session.

■ **Video MJPEG RTCP Port**
RTCP port for sending video stream of MJPEG media session.

■ **Audio MJPEG RTP Port**
RTP port for sending audio stream of MJPEG media session.

■ **Audio MJPEG RTCP Port**
RTCP port for sending audio stream of MJPEG media session.

■ **Video 3GPP RTP Port**
RTP port for sending video stream of 3GPP media session.

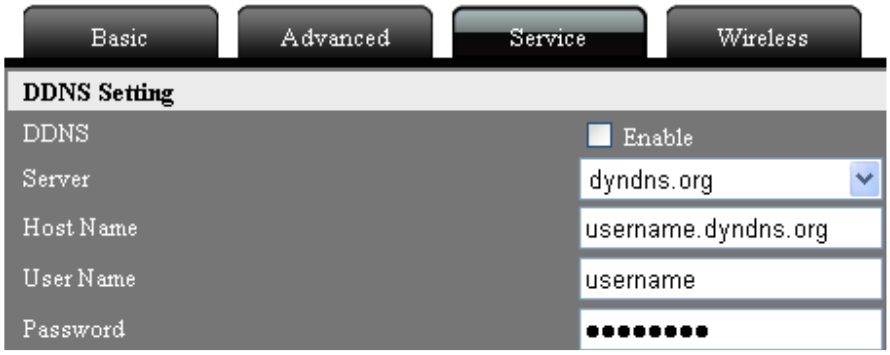
■ **Video 3GPP MJPEG RTCP Port**
RTCP port for sending video stream of 3GPP media session.

■ **Audio 3GPP MJPEG RTP Port**
RTP port for sending audio stream of 3GPP media session.

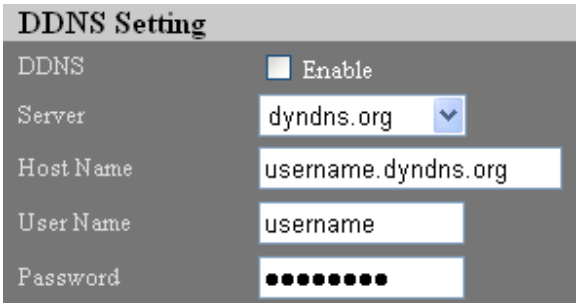
■ **Audio 3GPP MJPEG RTCP Port**
RTCP port for sending audio stream of 3GPP media session.

※Please click on Save button to finish configuration.

3.1.3 Service Setting



■ **DDNS Setting**



- **DDNS**
  Enable this item to activate DDNS function.

- **Server**
  Select DDNS service system: dyndns.org or dhs.org, please access the DDNS websites below to apply for DDNS service.

  http://www.dyndns.com
  http://www.dhs.org

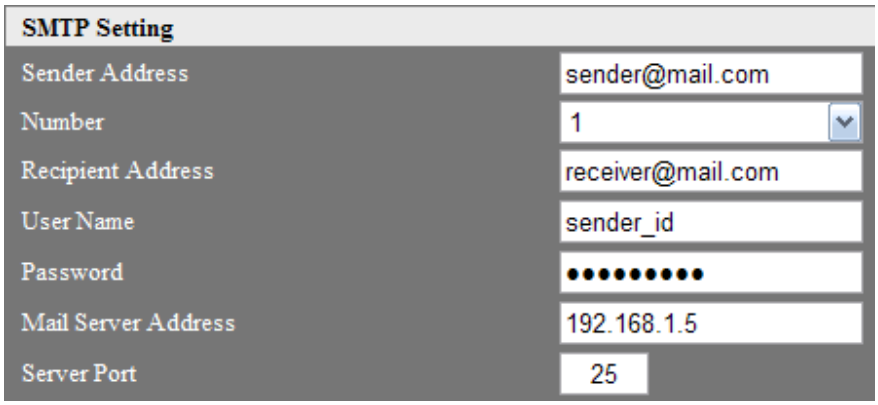
- **Host Name**
  Host name that user register for the device in DDNS website.

- **User Name**
  Username that user register in DDNS website.

- **Password**
  Password that user register in DDNS website

■ **SMTP Setting**

Please fill in SMTP setting if alarm is set to trigger Email warning.



- **Sender Address**
  Fill in sender E-mail address.

- **Number**
  Select a sequence number to identify recipient e-mail address.

- **Recipient Address**
  Fill in recipient E-mail addresses.

- **User Name**
  Username that user uses to access SMTP server.

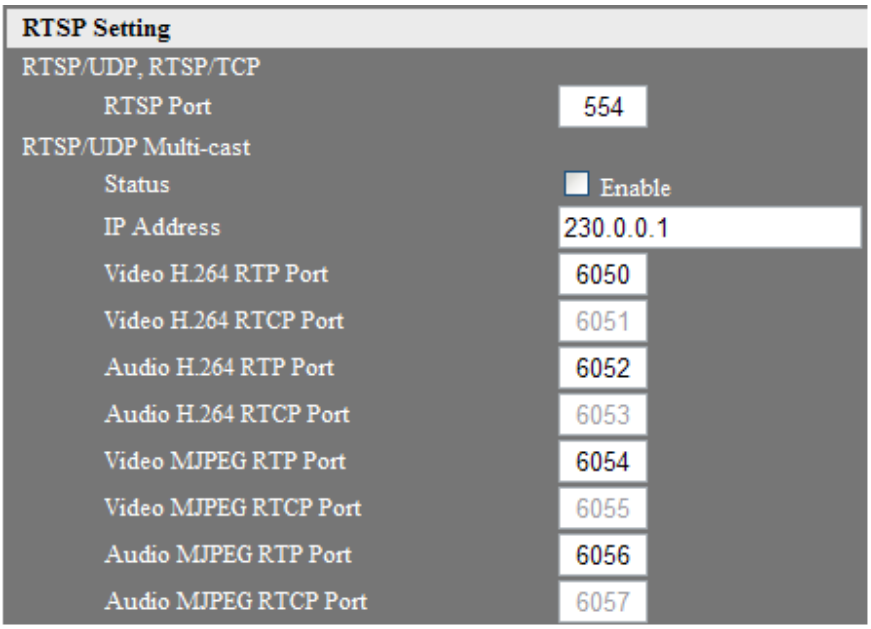
- **Password**
  Password that user uses to access SMTP server.

- **Mail Server Address**
  Fill in SMTP server address.

- **Server Port**
  Fill in the server port, default port is 25.

■ **RTSP Setting**

Setup RTSP port and ports for RTSP/UDP multicast.



RTSP/UDP, RTSP/TCP

- **RTSP Port**
  RTSP streaming port, port number is 554(unchangeable).

RTSP/UDP Multicast

- **Status**
  Enable this item to start multi-cast streaming. Due to system limitation, live view can only see multicast streaming when this function enable. Notice that if more than one network device in LAN use multi-cast function, please change multi-cast IP address or port numbers to prevent network package conflict.

Notice: When multicast service enables, 3GPP and digital zoom service will disable at the same time.

- **IP Address**
  Fill in Multicast IP address.

- **Video H.264 RTP Port**
  RTP port for sending video stream of H.264 media session.

- **Video H.264 RTCP Port**
  RTCP port for sending video stream of H.264 media session.

- **Audio H.264 RTP Port**
  RTP port for sending audio stream of H.264 media session.

- **Audio H.264 RTCP Port**
  RTCP port for sending audio stream of H.264 media session.

- **Video MJPEG RTP Port**

RTP port for sending video stream of MJPEG media session.

- **Video MJPEG RTCP Port**
  RTCP port for sending video stream of MJPEG media session.

- **Audio MJPEG RTP Port**
  RTP port for sending audio stream of MJPEG media session.

- **Audio MJPEG RTCP Port**
  RTCP port for sending audio stream of MJPEG media session.

Live View Video Stream with QuickTime
Please follow the steps below to live view video stream with QuickTime:

- Starts QuickTime.
- Select File and then open URL from the function bar. Please enter IP address of the device in the pop-up window. Different video type has different link.

When Multicast status is disabled, RTSP link as following the way:

Connecting H.264 image, please fill in **rtsp://IP address/h264**
Connecting MJPEG image, please fill in **rtsp://IP address/mjpeg**

When Multicast status is enabled, RTSP link as following the way:

Connecting H.264 image, please fill in **rtsp://IP address/h264m**
Connecting MJPEG image, please fill in **rtsp://IP address/mjpegm**

Please follow below procedures to setup QuickTime while the QuickTime version is later than 7.5.5 and not able to view live image. Select Edit > Preferences > QuickTime Preferences; click Advanced tag and disable "Enable Direct3D video acceleration" item.

■ Video View Mode

- **3GPP**
  Enable the service, you can connect the camera on mobile phone to view video.
  When you enable this service, the resolution will increase H.264_2 choices.

  Please input below link on stream player of your mobile phone.

  rtsp://IP address/3gpp

  When modifying a non-554 RTSP port number, please add the port number to the connection address field, address format as shown below:

  rtsp://IP address:Port/3gpp

- **Digital Zoom**
  Enable digital zoom function, image resolution will be 1920x1080, image size default value is 352x240. To modify the image size, please follow the setup as follow: [camera] → [Digital Zoom]

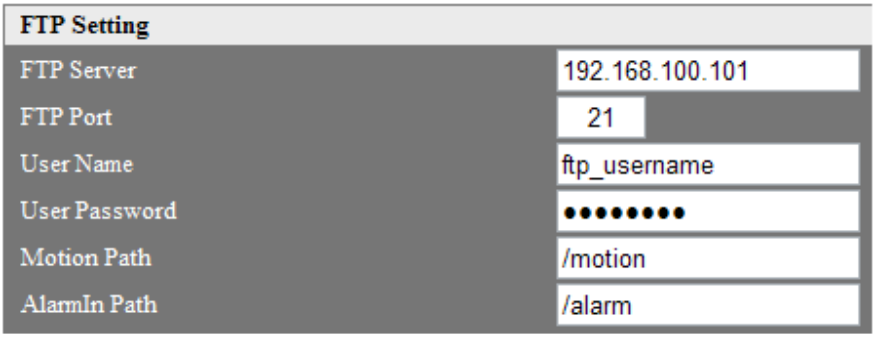
Notice: When digital zoom enables, multicast and 3GPP service will disable at the same time. Likewise, when 3GPP service enables, digital zoom and multicast services will disable accordingly.

■ UPnP Setting

Enable this function to open UPnP service. Device can be found in "My network places".

■ FTP Setting

Please fill in FTP setting if alarm is set to trigger recording file upload to FTP server.



- **FTP Server**
  Fill in FTP server address.

- **FTP Port**
  FTP port number, default port is 21.

- **User Name**
  Username that user uses to access FTP server.

- **Password**
  Password that user uses to access SMTP server.

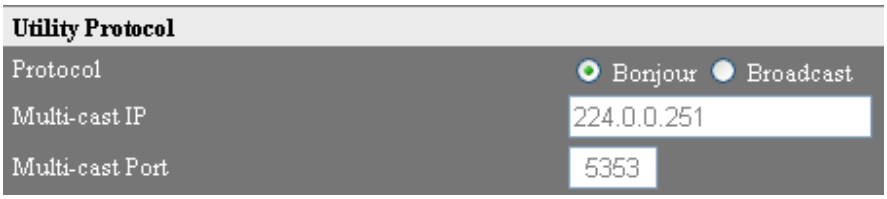
- **Motion Path**
  Fill in FTP server provides file upload path.

- **AlarmIn Path**
  Fill in FTP server provides file upload path.

※ In above path fields, [/] means root directory path that provided by remote FTP server; [pathname] means saving files under 'pathname' folder. If the folder hasn't existed, system will create it automatically.

■ **Utility Protocol**

Define which protocol that device uses for sending message to SecuUtility. Default is set as Bonjour mode.



➢ **Protocol**

Select protocol type as Bonjour or Broadcast.

· **Bonjour**

Send camera existing message to request clients. Use can manually modify camera setting through SecuUtility with this protocol.

· **Broadcast**

Send camera existing message to every client. Use can only get camera information through SecuUtility but unable to change setting.

➢ **Multi-cast IP**

Multi-cast IP address for selected protocol. This value is unchangeable.

➢ **Multi-cast Port**

Multi-cast port for selected protocol. This value is unchangeable.

■ **ONVIF**

Device supports transmitting stream through ONVIF protocol. After enable this service, integrated software can connect to the device by standard ONVIF protocol.

➢ **Status**

Enable this item to start ONVIF service of the device.

➢ **Multi-cast IP**

Multi-cast IP address for ONVIF. This value is unchangeable.

➢ **Multi-cast Port**
Multi-cast port for ONVIF. This value is unchangeable.

■ **HTTPS Setting**
Select "Enable" to open the HTTPS protocol. Web connection is mandatory to HTTPS protocol. Default port is 443.

Connection applying HTTPS protocol, the connection address is as follows:

https://IP address

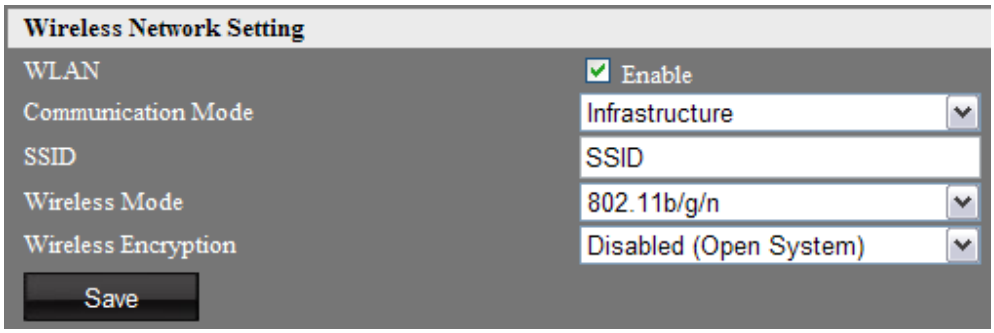
When modifying a non-443 HTTPS port number, please add the port number to the connection address field, address format as shown below:

https:// IP address: port number

■ **QoS Setting**
QoS service is available to image, audio, event, and management functions, default value is 0 (DSCP Setup Range: 0 to 63). To apply this feature, please also refer to the QoS settings of the relative network devices.

3.1.4 Wireless Network Setting

This function only supports device with wireless dongle.



■ **WLAN**
Click Enable to active wireless function.

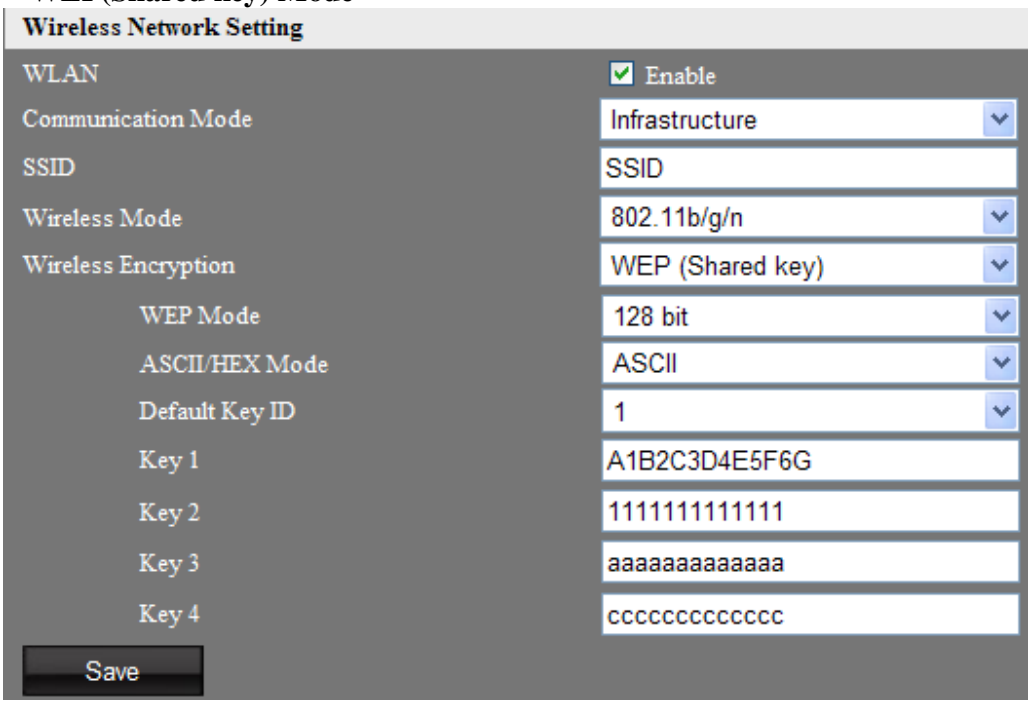
■ **Communication Mode**
Set communication mode as infrastructure.

■ **SSID**
Enter SSID of wireless AP router.

■ **Wireless Mode**
Wireless mode is 802.11b/g/n, system will select automatically.

■ **Wireless Encryption**
Select wireless encryption type: Open System, WEP(Shared key), and WPA-PSK.

▪ **WEP(Shared key) Mode**



➢ **WEP Mode**
Select 64bit or 128 bit for WEP encryption encoding.

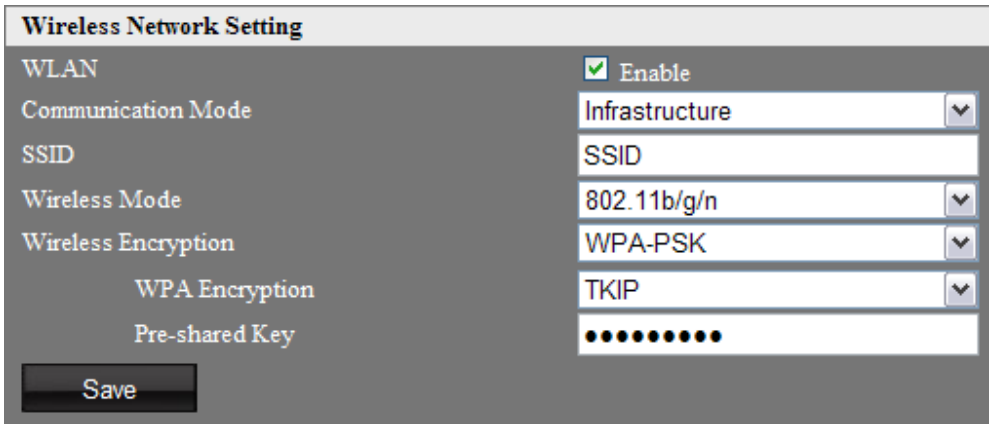
➢ **ASCII/HEX mode**
Select key format as ASCII mode or Hex mode. Please check below table for available input length and letters.

WEP Mode	64 bit	128 bit
ASCII	5 characters (0~9 ， A~Z ， a~z)	13 characters (0~9 ， A~Z ， a~z)
HEX	10 characters (0~9 ， A~F ， a~f)	26 characters (0~9 ， A~F ， a~f)

➢ **Default Key ID**
Select Key ID from 1 to 4.

➢ **Key1~Key4**
Enter Key 1~4 that correspond to wireless AP setting.

▪ **WPA-PSK Mode**

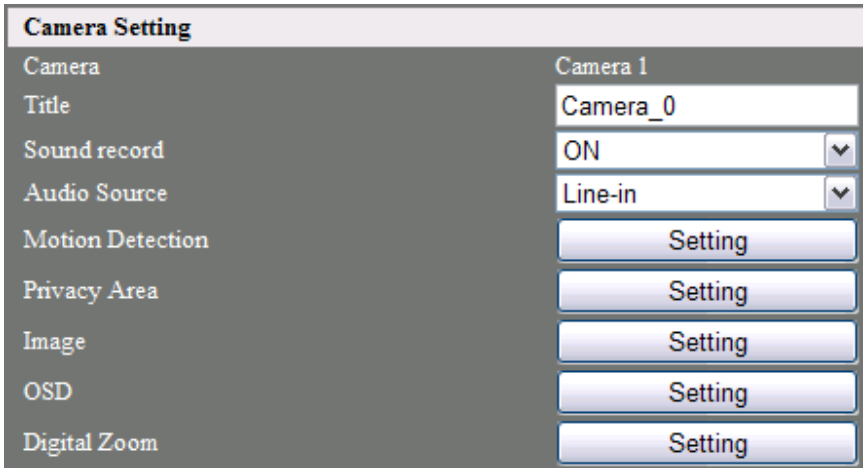


➢ **WPA Encryption**
Select encryption type: TKIP, AES.

➢ **Pre-shared Key**
Enter pre-shared key that corresponds to wireless AP setting.

3.2 Camera Setting

3.2.1 Camera Setting



■ **Title**

Define the camera name, the characters can be Arabic alphabet 0~9, capitalized or non-capitalized English alphabet, and symbol"-", "_"and".". The maximum inputs are 20 characters.

■ **Sound Record**

Enable audio function while recording.

■ **Audio Source**

Select audio source is Line-in or Microphone.

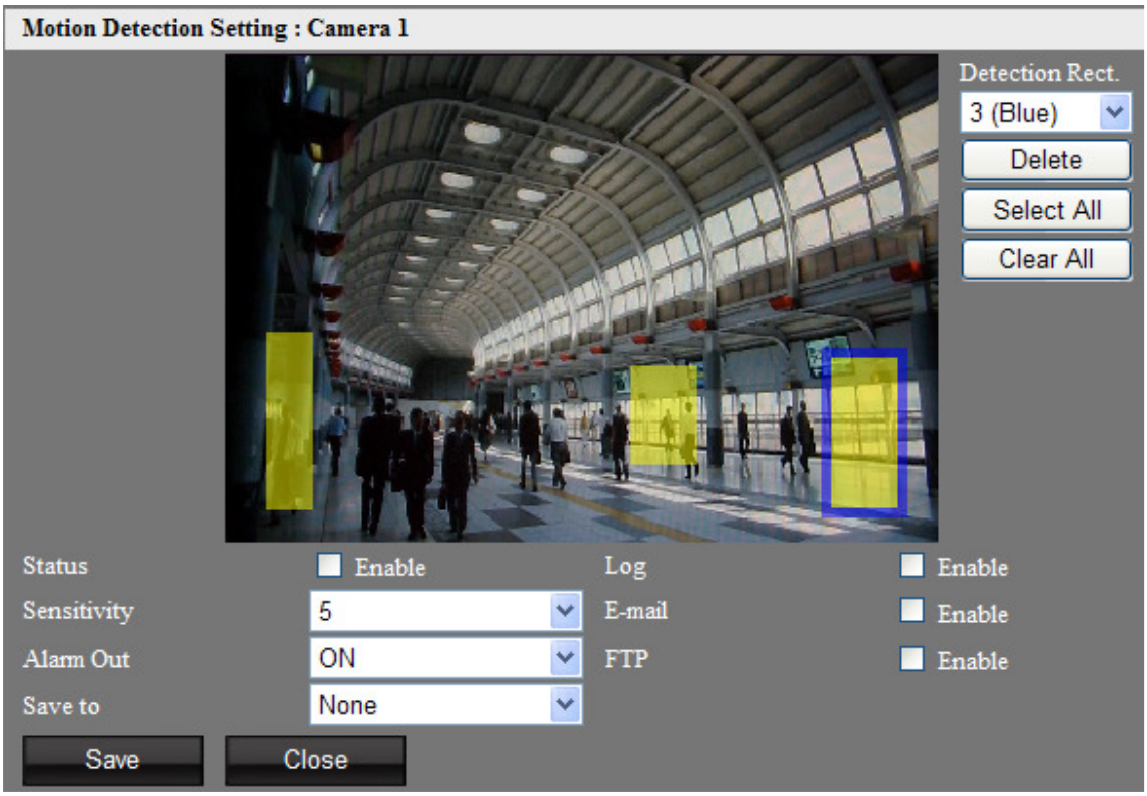
(1) Line-in: Select the audio source with linear-level receive audio devices, such as amplifiers devices.

(2) Microphone: Select built-in microphone for audio source.

■ **Motion Detection**

Set up motion detection area. While motion is triggered, the selected trigger action will start working. Motion trigger interval is 10 seconds, continuous trigger is available. Please notice that motion detection is not working when pre-event and post-event recording is set to 0 second.

There are three color blocks for setting motion detection area: red, green, and blue. Select the designate color block to define detection area.



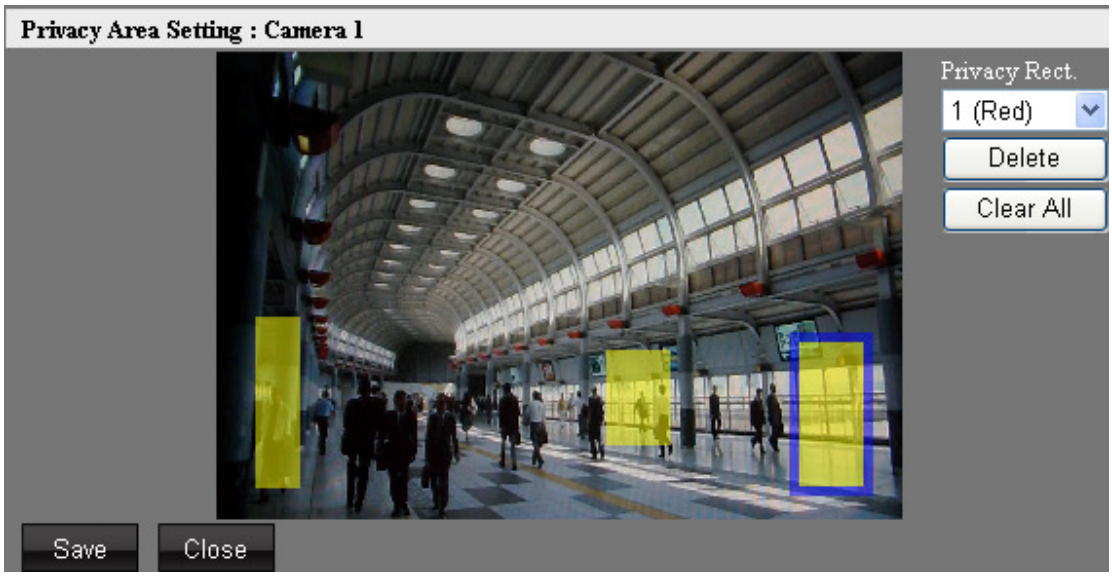
- **Status**
  Enable this item to activate motion detection.
- **Sensitivity**
  Select motion detective sensitivity. Adjustable range is from 0 to 10, insensitive to sensitive.
- **Alarm out**
  Enable to trigger alarm out while motion is detected.
- **Log**
  Enable to store log in backup device while motion is detected.
- **E-mail**
  Enable to send E-mail with snapshot while motion is detected.
- **FTP**
  Enable to upload event recording files to FTP site while motion is detected.
- **Save to**
  Enable to save snapshot and event recording files to [None / SD Card / External USB] while motion is detected. Please notice that choosing storage none means no files will be saved.
- **Delete**
  Click the button to delete the designated color detection rectangle.
- **Select All**
  Click the button to enable full area detection.
- **Clear All**
  Click the button to clear selected detection area.

※ Please click on “Save” button to save settings and click on “Close” button to finish. It

takes 10 seconds to overwrite the new setting into system file; any operation needs to wait for 10 seconds.

■ **Privacy Area**

Define privacy area to hide blocks from monitoring. Please notice that motion in privacy area can't be triggered.



- **Privacy Rect.**
  Select rectangle color and select range on image to define privacy area.

- **Delete**
  Click the button to delete privacy of chosen rectangle color.

- **Clear All**
  Click the button to clear all privacy areas.

※ Please click on "Save" button to save settings and click on "Close" button to finish.
Privacy setting area is related to image resolution, to avoid position inaccuracy, please set up privacy rectangle after setting resolution.

■ Image

➢ **Image Color**
Select image color in color or memo.

➢ **Brightness**
Adjust image brightness parameter; the higher the value, the brighter the image.

➢ **Saturation**
Adjust image saturation parameter; the higher the value, the more saturate the image.

➢ **Contrast**
Adjust image contrast parameter; the higher the value, the higher the contrast of image.

➢ **Hue**
Adjust video hue parameter, the smaller the value, the bluer the video is; reversely, the higher the value is, the redder the video is.

➢ **EV**

Adjust video exposure value, the smaller the value, the lower exposure of video is; reversely, the higher the value is, the higher exposure of video is.

- **Sharpness**
  Adjust image sharpness parameter; the higher the value, the shaper the image.
- **Scene Mode**
  Select scene mode to choose ICR(IR Cut Filter Removable) switch mode. Default setting is Auto mode.
  - **Auto:** ICR switch automatically depends on the illumination of scene difference. ICR switches to night mode, live image turns to mono color.
  - **OFF:** ICR keeps at day mode regardless of scene change.

- **Camera Mode**
  Select camera mode to adjust shutter speed and gain control. Default is De-flicker mode.
  - **General mode:** Adjust shutter speed or gain control. User can adjust the value by different shooting range.
  - **De-flicker mode:** shutter speed is fixed at 1/30 second to decrease external environment that caused by the flicker.
  - **DayNight mode:** Divide shutter speed by day and night different values. Day and night of scene is switched by light sensor. When light sensor detects day mode, shutter speed is set as setting range of day; so does in night mode.

- **Shutter Speed**
  Shutter speed can be set as auto or manual, setting range is from 1/2~1/10000 second. The faster the shutter speed, the dimmer the image is. Likewise, the slower the shutter speed, the brighter the image is.
  - **Maximum Shutter Speed**
    Maximum shutter speed setup under manual mode, adjustment range : 1/2~1/10000

  - **Minimum Shutter Speed**
    Minimum shutter speed setup under manual mode, adjustment range : 1/30~1/10000

※Camera shutter speed is various between maximal and minimal shutter speed.

- **Gain Control**
  Default gain control level is 24. The setting value means the maximal gain control level, which means the gain level is various between 0 to the setting value. Adjust level is from 0 to 42db.

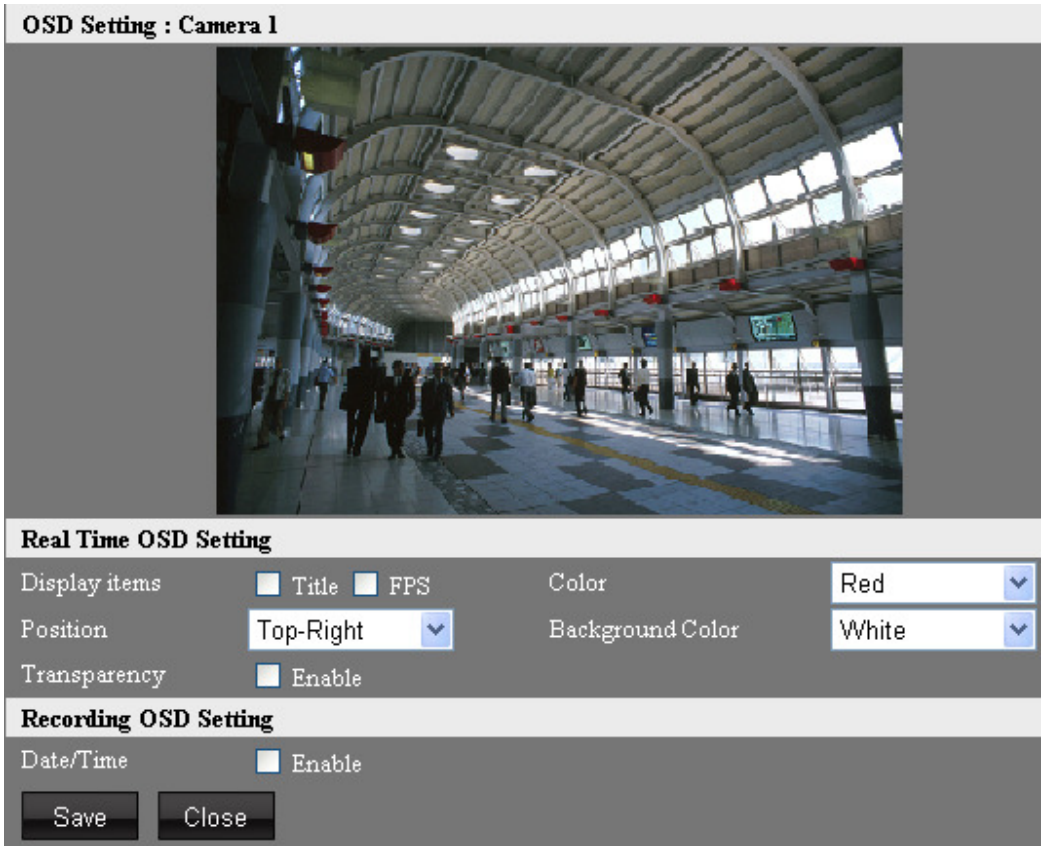
- **Flip**
  Enable to flip over image. System needs to reconnect stream to refresh preview window. Before clicking save button, system would not reconnect the stream.

- **Mirror**
  Enable to mirror image. System needs to reconnect stream to refresh preview window. Before clicking save button, system would not reconnect the stream.

- **Default**
  Click the button to restore default value of image parameters. Please notice this setting applies without click "Save" button.

  ※Please click on "Save" button to save settings and click on "Close" button to finish.

■ **OSD (On Screen Display)**



Real Time OSD

Display OSD on live view image.

- **Display Items**
  Select display items: camera title, and frame per second of live view image.
- **Position**
  Select placement for OSD: Top-Left, Top-Right, Bottom-Left and Bottom-Right. Please note that when choose the position as Top-Right, the real time OSD may cover recording OSD.
- **Color**
  Select OSD font color: White, Black, Red, Green, Blue, Yellow, Cyan, and Magenta.
- **Background Color**
  Select OSD background color: White, Black, and Transparency.
- **Transparency**
  Enable this item to make OSD transparent.

Recording OSD

Display OSD on record files.

➢ **Date/Time**
Enable to display system date and time on recording OSD.

※Please click on “Save” button to save settings and click on “Close” button to finish.

■ **Digital Zoom**
Enable digital zoom viewing mode, and adjust image size of the digital zoom.

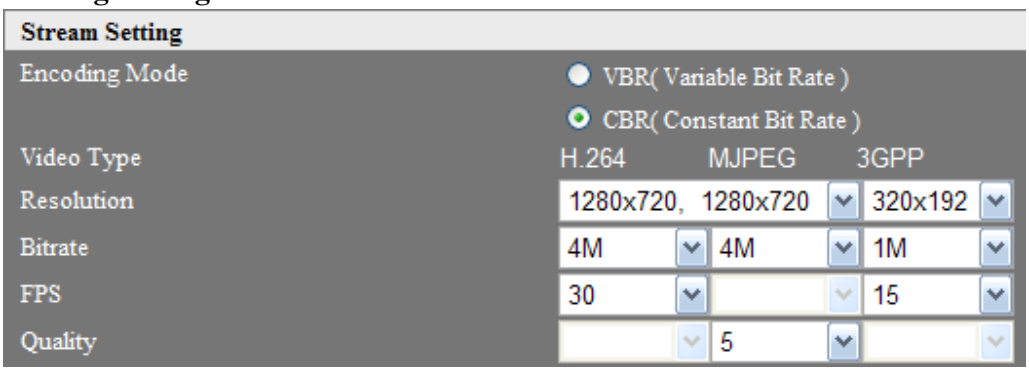
➢ **Digital Zoom Setup**

- **Width**
  When digital zoom is applied, the width of the screen is adjustable (Setup Range: 352 ~ 640).

- **Hight**
  When digital zoom is applied, the height of the screen is adjustable (Setup Range: 192 ~ 480).

※After the above setup has been completed, click “Save” and “Close” to complete the setup.

3.2.2 Streaming Setting



■ **Encoding Mode**
Select encoding mode for stream: VBR (Variable Bit Rate) or CBR (Constant Bit Rate).

- **VBR mode** transmit stream with variable bit rate according to the variation of image, the maximal bit rate consuming will still be under the set bit rate.

- **CBR mode** transmit stream with constant bit rate.

■ **Video Type**

System provides three video type streams: H.264_1, H.264_2 and MJPEG.

■ **Resolution**

H.264 and MJPEG each have corresponding adjustable resolution, please refer to below table.

H.264	MJPEG
640 x 480	640 x 480
720 x 480	720 x 480
1280 x 720	1280 x 720
1280 x 960	1280 x 960
1920 x 1080	None

3GPP
320 x 192
320 x 240

When 3GPP service disables, image options is switching as below resolution.

H.264	MJPEG
640 x 480	640 x 480
720 x 480	720 x 480
1280 x 720	1280 x 720
1280 x 960	1280 x 960
1920 x 1080	None
None	1920 x 1080
2048 x 1536	None
None	2048 x 1536

■ **Bitrate**

Bit rate for image stream, the higher the value, the more delicate the image is.
For different image format and resolution, different adjustment ranges are:

H.264_1 → 64K~ 8M
MJPEG → 1M~ 8M
H.264_2(3GPP) → 64K~ 1M

※ Adjustment range of MJPEG bit rate changes by different resolution.

■ **FPS**

Frame rate for H.264 stream. Setting range is from 1 to 30; the more frame rate per second, the smoother the image stream.
Under the default bit rate, 4M, all resolution can reach 30 fps. 3GPP can reach average 15 fps under bit rate 1Mbps.
Base on different network environment, frame rate of camera may be different. Above description is used for reference only.

■ **Quality**

Image quality of MJPEG video type. Setting range is from 1 to 5; the higher the value is the better image quality would be.
Base on different resolution, using bandwidth, bitrates and quality, the image FPS may be different. The following chart is giving a reference FPS value for single connection of device.

Bit Rate / Quality	8 M	4M	2M
1	15~30 (fps)	8~15 (fps)	3~5 (fps)
2	10~30	3~15	1~5
3	10~25	3~10	1~3
4	8~20	2~10	1~3
5	5~20	2~8	0~3

3.2.3 Event Record

Define pre-event and post-event recording duration for event record files. Event video recording file as AVI format, that don't need via video converter to play.

- **Pre-event Recording (sec.)**
  Select pre-event recording duration; setting range is from 0 to 10.

- **Post-event Recording (sec.)**
  Select post-event recording duration; setting range is from 0 to 10.

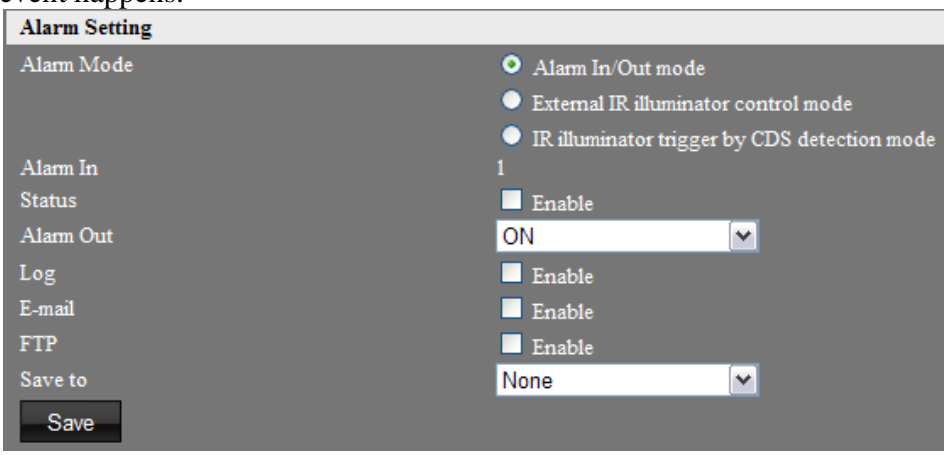
The corresponding set recording duration, please refer to below table.

H.264	MJPEG	Pre-event Recording	Post-event Recording
640 x 480	640 x 480	10	10
720 x 480	720 x 480	10	10
1280 x 720	1280 x 720	3	3
1280 x 960	1280 x 960	3	3
1920 x 1080	None	0	0
2048 x 1536	None	0	0
None	1920 x 1080	0	0
None	2048 x 1536	0	0

※Note that event will not be triggered when pre-event and post-event recording duration both are set to 0.
※Please click on “Save” button to save settings.

3.3 Alarm

Alarm setting is similar to motion detection setting. The difference is that alarm doesn't repeat trigger action for the same event. Alarm trigger duration is about 10 seconds, after system completes trigger actions, which takes 3 seconds, alarm will back to original status till next event happens.



■ **Alarm In/ Out Mode**

Select alarm mode to setup alarm event trigger On/ Off.

➢ **Status**

Enable this item to activate alarm trigger.

➢ **Alarm Out**

Enable to trigger alarm out while alarm is triggered.

➢ **Log**

Enable to store log in backup device while alarm is triggered.

➢ **E-mail**

Enable to send E-mail with snapshot while alarm is triggered.

➢ **FTP**

Enable to upload event recording files to FTP site while alarm is triggered.

➢ **Save to**

Enable to save snapshot and event recording files to [None, SD card / external USB] while alarm is triggered. Please notice that choosing storage none means no files will be saved.

■ **External IR illuminator control mode**

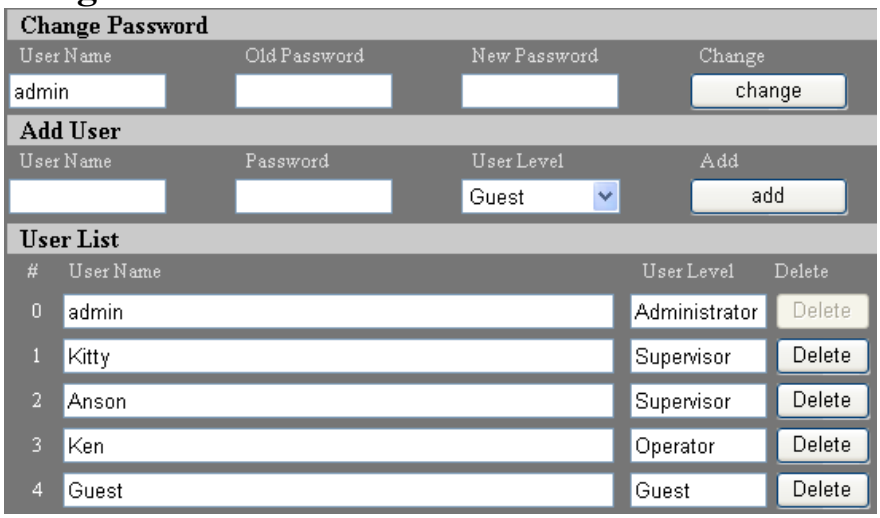
External IR illuminator is triggered by alarm in. When trigger is on, external IR illuminator keeps on; image switches to night mode regardless of light sensor detection.

■ **IR illuminator trigger by CDS detection mode**

External IR illuminator is triggered by light sensor. When light sensor detects night mode, external IR illuminometer keeps on; image switches to night mode.

※Please click on "Save" button to save settings. It takes 10 seconds to overwrite the new setting into system file; any operation needs to wait for 10 seconds.

3.4 User Management



■ **Change Password**

Enter the original password and new password, click on "change" button to finish password change.

Password of operator and guest accounts are not changeable, if user wants to change the password of operator and guest accounts, please login as administrator or supervisor, and delete operator or guest account, and create new accounts.

■ **Add User**

Enter username and password, select the user group level and click on "add" button. The maximal users can be set up to 15. The account name characters should follow the restrictions below:

- Enter user name and password; the characters can be Arabic alphabet 0~9, capitalized or non-capitalized English alphabet, and symbol"-", "_"and ".". The maximum inputs are 32 characters. English upper and lower case are seen as different character.

Admin is unique. Admin can create supervisor, operator and guest level users. Supervisor lever users can create operator and guest level users. Operator and guest level users have no right to add user.

■ **User List**

List all users in the table. Click on "Delete" button to delete user.

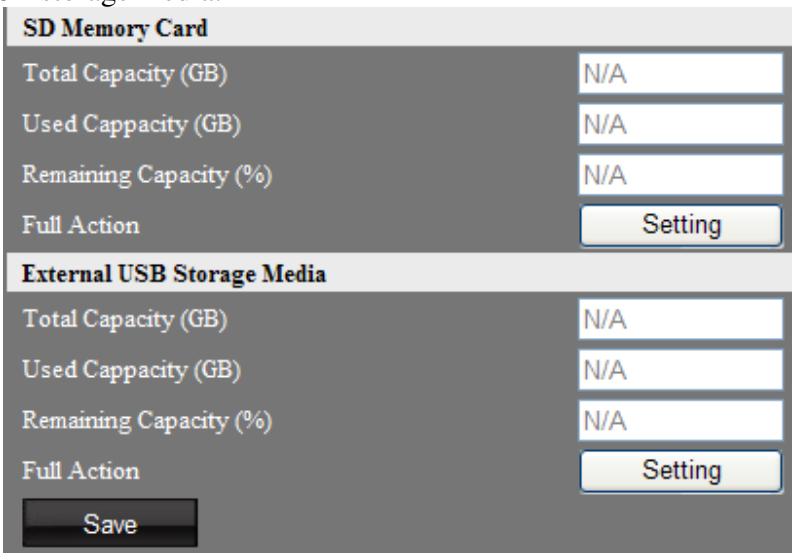
■ **User Security Level**

System provides four levels users; please refer to below table for each level's permission.

User Level	Live View Image	Live View Utility	Setting	User Management
Administrator	◎	◎	◎	◎
Supervisor	◎	◎	◎	◎
Operator	◎	◎		
Guest	◎			

3.5 Backup Device

The system backup device supports Micro SD memory card and external USB storage media. System doesn't support hot swapping, please power off camera when insert or remove micro SD card and USB storage media.



■ **Total Capacity**
Display the total capacity of the backup device.

■ **Used Capacity**
Display the used space of the backup device.

■ **Remaining Capacity**
Display free space of the backup device.

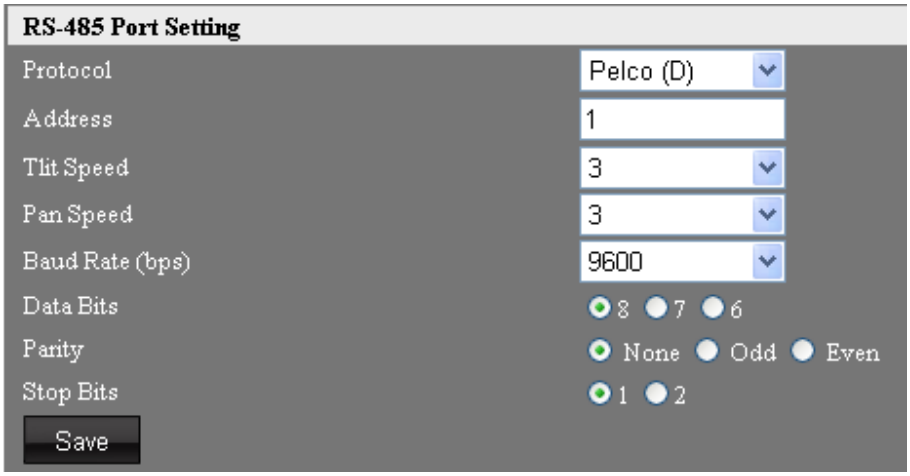
■ **Full Action**
Setup trigger action item after backup device is full.

- **Status**
  Enable this item to activate full action.
- **Overwrite**
  Enable to overwrite when backup storage is full. Overwrite function can only overwrite files that are built by event trigger. Files that create by other methods can't be overwritten. Overwrite function works independently, has not related with status enable or not.

- **Alarm Out**
  Enable to trigger alarm out while backup device is full.
- **Log**
  Enable to store log in backup device while backup device is full.
- **E-mail**
  Enable to send E-mail with snapshot while backup device is full.

※Please click on “Save” button to save settings and click on “Close” button to finish. It takes 10 seconds to overwrite the new setting into system file; any operation needs to wait for 10 seconds.

3.6 **Peripheral**



■ **Protocol**
Select Protocol type for PTZ camera. Available choices are Palco D and Palco P.

■ **Address**
Enter PTZ address. The value should be set between 0 and 255.

■ **Tilt Speed**
Select tilt speed for PTZ. The bigger the value is, the faster the camera zoom.

■ **Pan Speed**
Select pan speed for PTZ. The bigger the value is, the faster the camera zoom.

■ **Baud Rate(bps)**
Select baud rate for RS485 protocol, select range is from 2400~115200.

■ **Data Bits**
Select 8 bits, 7 bits or 6 bits for transferring data bits.

■ **Parity**
Select none, odd, or even for parity.

■ **Stop Bits**
Select 1 or 2 for stop bits.

3.7 System

3.7.1 Basic Setting

■ **Host Name**

Define the device name. After UPnP function is enabled, the device can be found in My Network Places. The modified host name will simultaneously display in the SecuUtility.

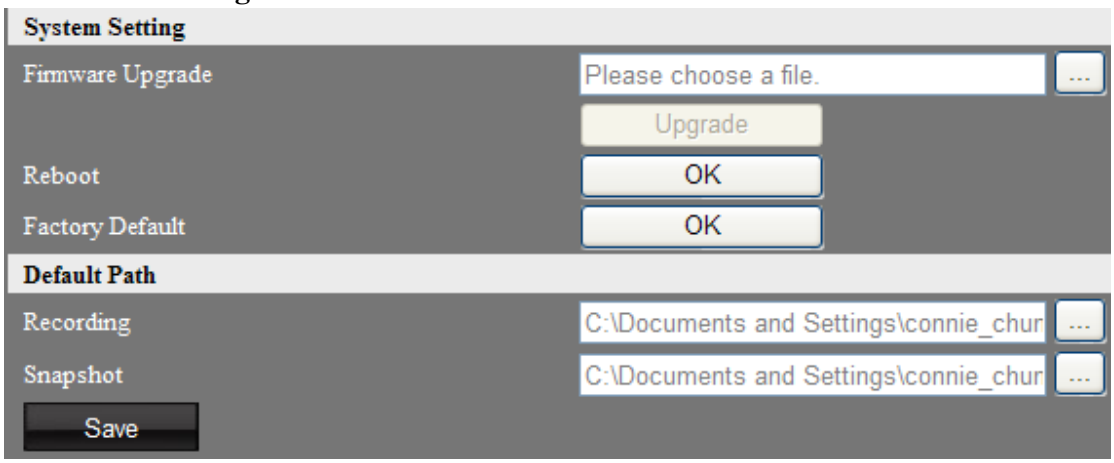
The input characters can be Arabic alphabet 0~9, capitalized or non-capitalized English alphabet, and symbol"-", "_"and ".". The maximum inputs are 32 characters.

■ **Language**

Select preferred language for user interface.

※Please click on "Save" button to save settings.

3.7.2 Advanced Setting

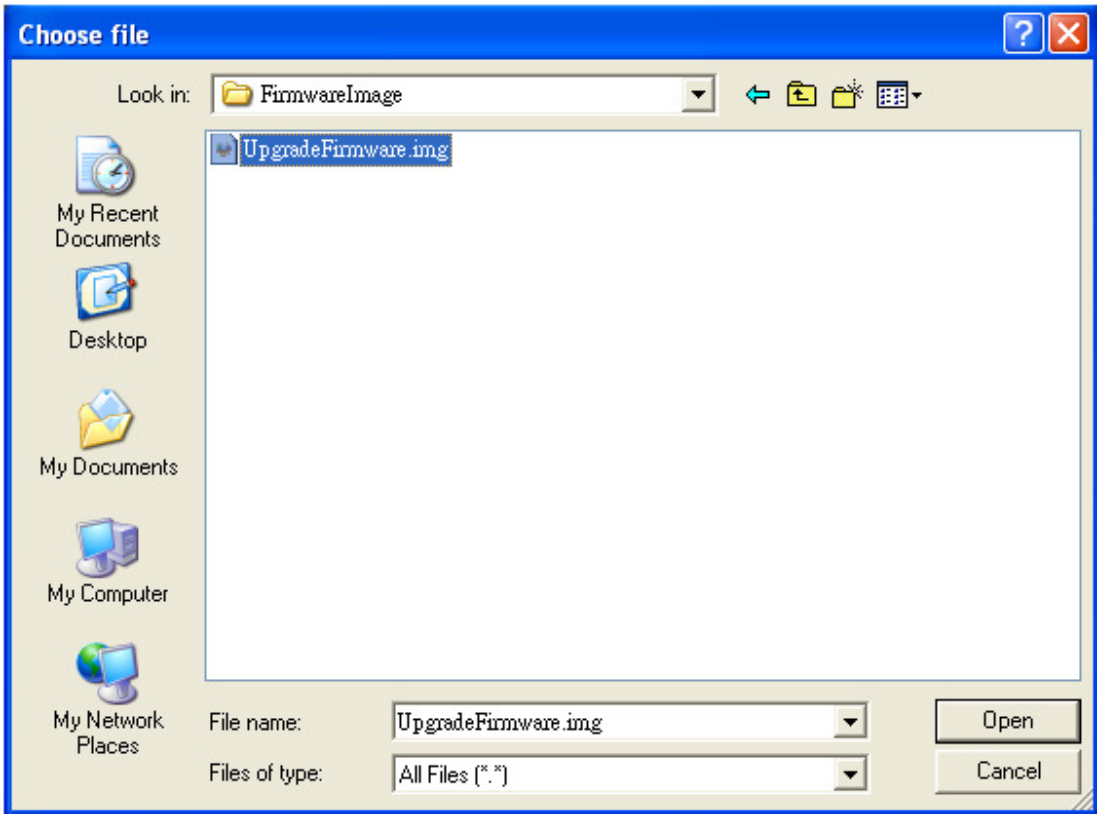


■ **System Setting**

- **Firmware Upgrade**

  To perform firmware upgrade, click on firmware upgrade button. Choose new firmware file, *.img, and click "Upgrade" button. System will automatically perform firmware upgrade. The whole process may take about 5 minutes to complete. **DO NOT power off device during firmware upgrade in case system malfunction occur.**

  For local firmware upgrade, please refer to Appendix A.



- **Reboot**
  Click on the button to reboot the device.

- **Factory Default**
  Click on the button to reset the device back to factory default settings.

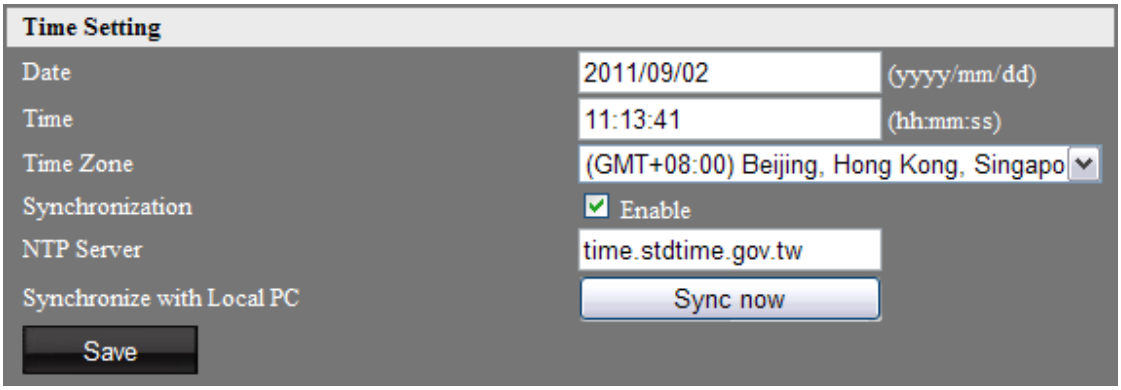
■ Default Path

- **Recording**
  Select to change saving path of web recording files. Default is at “My Documents”.

- **Snapshot**
  Select to change saving path of web snapshot files. Default is at “My Documents”.

  ※Please click on “Save” button to save settings.

3.7.3 Time Setting



■ **Date**
Fill in system date, the format should be: yyyy/mm/dd.

■ **Time**
Fill in system time, the format should be: hh:mm:ss (24-hour clock).

■ **Time Zone**
Define time zone of current area.

■ **Synchronization**
Enable to synchronize time with NTP server every hour.

■ **NTP Server**
Fill in NTP server address. User can choose any one of below public NTP servers to use.

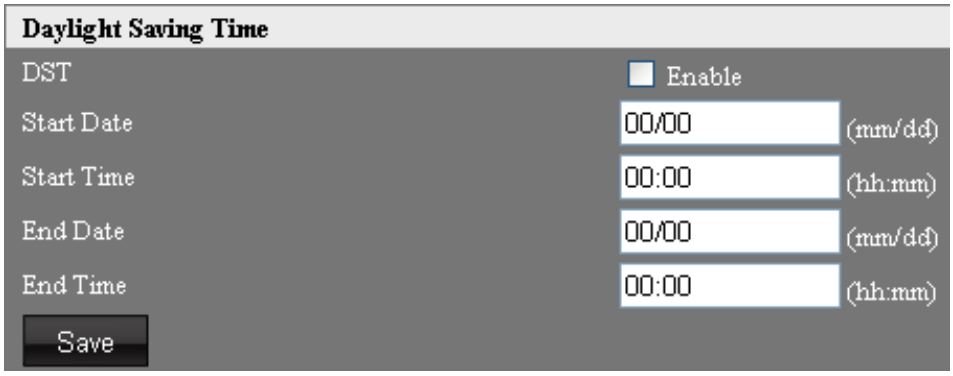
- time.stdtime.gov.tw
- asia.pool.ntp.org
- tw.pool.ntp.org
- us.pool.ntp.org
- europe.pool.ntp.org
- oceania.pool.ntp.org
- south-america.pool.ntp.org

※Please click on “Save” button to save settings.

■ **Synchronize with Local PC**
When system does not enable NTP server synchronization, click “Sync now” to synchronize camera system time as client PC time.

※ System time in this web page can’t refresh automatically, please switch pages to refresh manually.

3.7.4 DST (Daylight Saving Time)



■ **DST**
Enable this item to activate day light saving function.

■ **Start Date**
Fill in the start date of DST, the format should be: mm/dd.

■ **Start Time**
Fill in the start time of DST, the format should be: mm/dd.

■ **End Date**
Fill in the end date of DST, the format should be: mm/dd.

■ **End Time**
Fill in the end time of DST, the format should be: mm/dd.

※Please click on “Save” button to save settings.

Appendix A – Upgrade Firmware at Local Device

Upgrade newer version firmware to the device, there is another method that you can do at local device besides the firmware upgrade on website. During the processing, you can tell the status by lighting. The procedures to upgrade as following:

(1) Turn off the device power supply.

(2) Copy the upgraded firmware file from personal PC to compatible Micro SD memory card.

(3) Confirm the firmware file which was copied to Micro SD card is as following file:
Firmware file→*.img and upgrade.sh
File name has to be exactly the same as above to upgrade system.

(4) Put the Micro SD card with firmware file to device.

(5) Turn on the device power supply.
System automatically upgrade; it takes 2~3 minutes for system upgrade. During the process, power lighting continues blinking. After system reboot complete, the power lighting stays on.

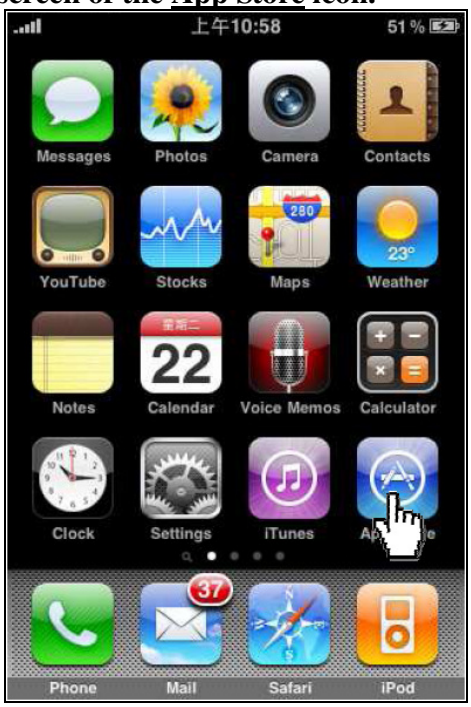
(6) Remove the Micro SD card on device.
Please remove Micro SD card while loading system has completed.

Please make sure the step 6 has been executed, otherwise, the system will upgrade again while system reboot next time.

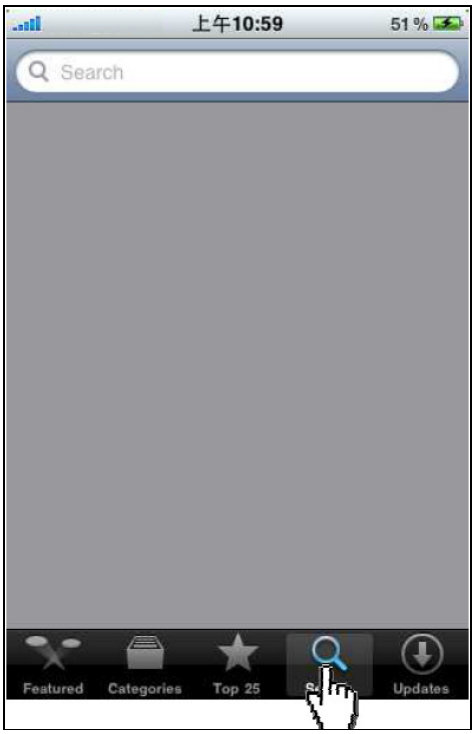
Appendix B – 3GPP on iPhone

※ Before using this function, please enable 3GPP service, set path : [Setup]→[Network]→[Service].

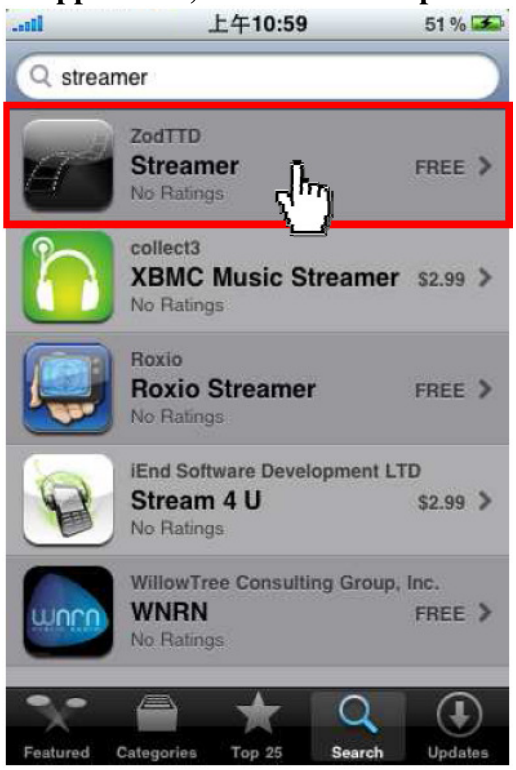
(1) Please click on the main screen of the App Store icon.



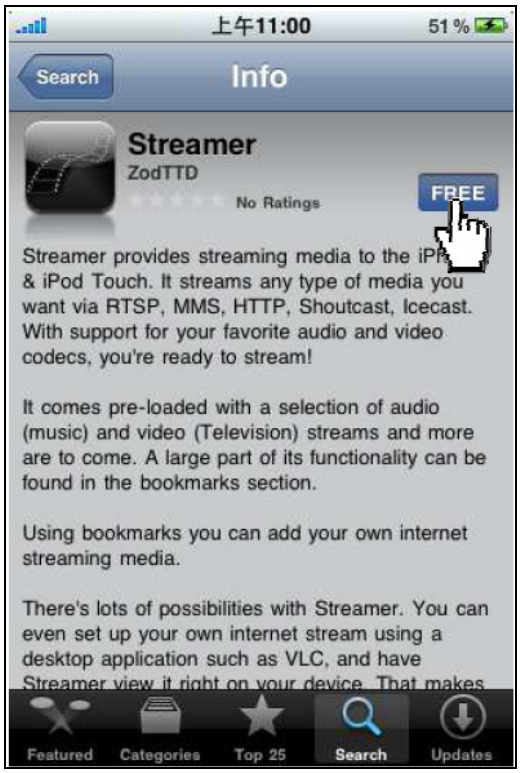
(2) Click "Search" icon.



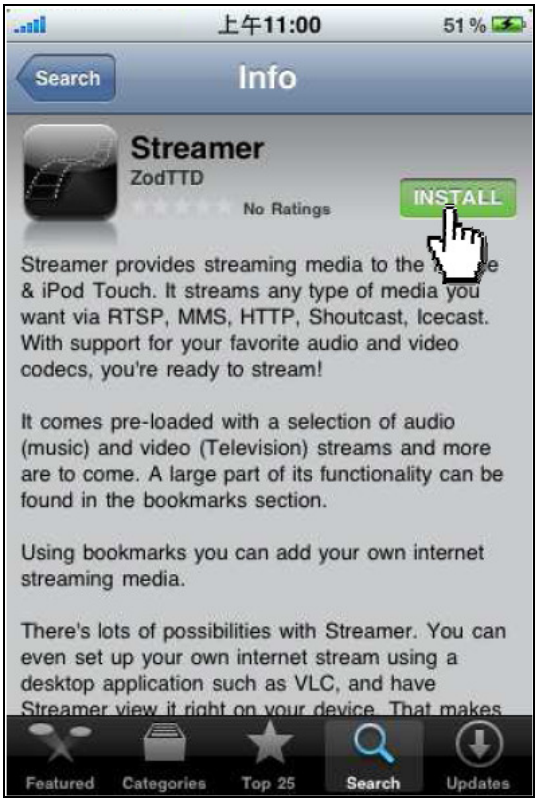
(3) Please search "Streamer" application, shown as below picture.



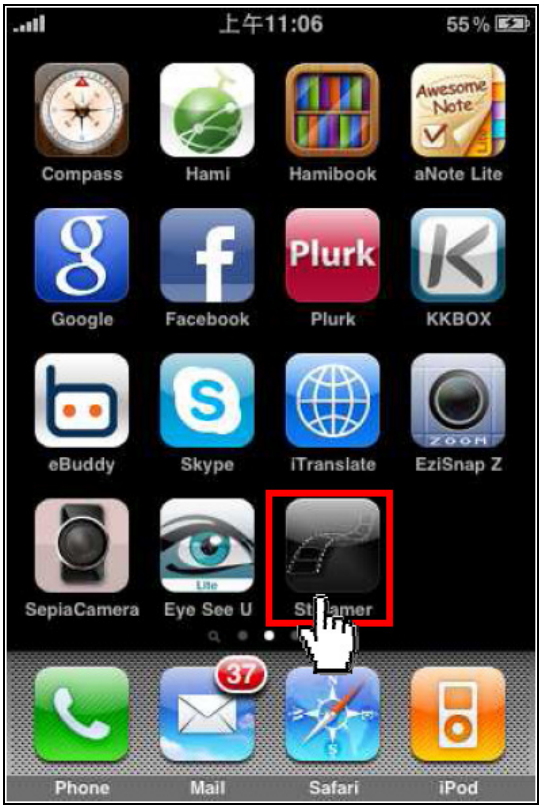
(4) Click "Free" button.


上午11:00
51 %
Search
Info
Streamer
ZodTTD
No Ratings
FREE
Streamer provides streaming media to the iPh
& iPod Touch. It streams any type of media you
want via RTSP, MMS, HTTP, Shoutcast, Icecast.
With support for your favorite audio and video
codecs, you're ready to stream!
It comes pre-loaded with a selection of audio
(music) and video (Television) streams and more
are to come. A large part of its functionality can be
found in the bookmarks section.
Using bookmarks you can add your own internet
streaming media.
There's lots of possibilities with Streamer. You can
even set up your own internet stream using a
desktop application such as VLC, and have
Streamer view it right on your device. That makes
Featured
Categories
Top 25
Search
Updates

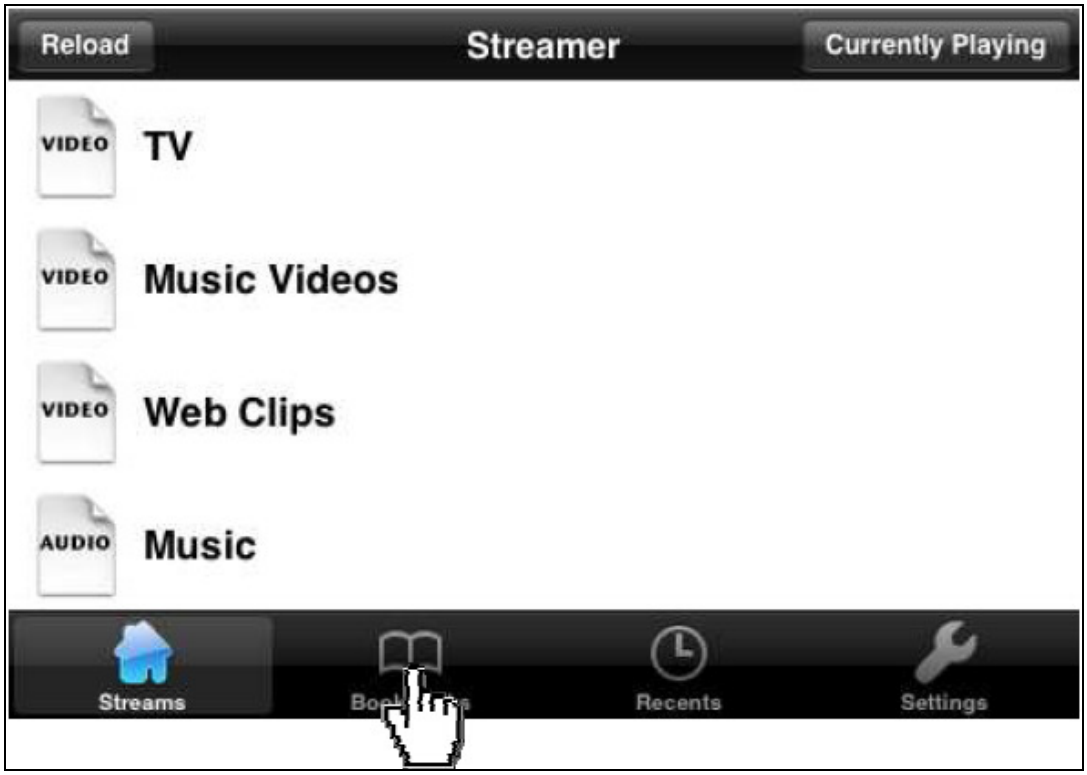
(5) Please click "INSTALL" button to install the software.


上午11:00
51 %
Search
Info
Streamer
ZodTTD
No Ratings
INSTALL
Streamer provides streaming media to the
& iPod Touch. It streams any type of media you
want via RTSP, MMS, HTTP, Shoutcast, Icecast.
With support for your favorite audio and video
codecs, you're ready to stream!
It comes pre-loaded with a selection of audio
(music) and video (Television) streams and more
are to come. A large part of its functionality can be
found in the bookmarks section.
Using bookmarks you can add your own internet
streaming media.
There's lots of possibilities with Streamer. You can
even set up your own internet stream using a
desktop application such as VLC, and have
Featured
Categories
Top 25
Search
Updates

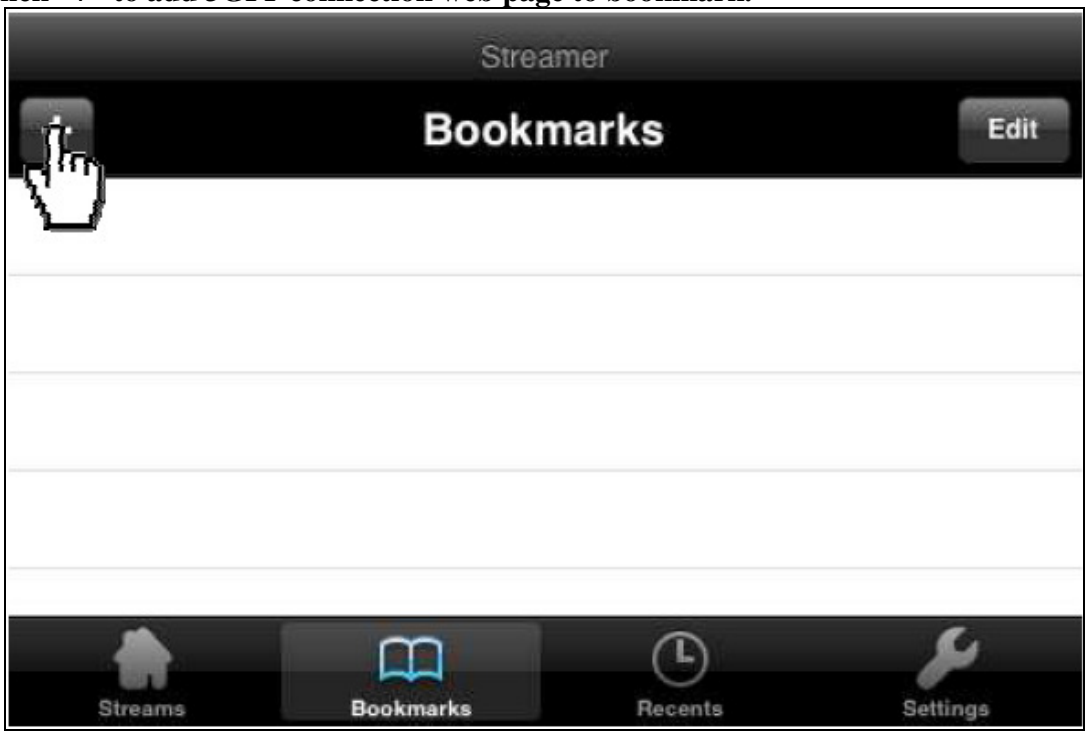
(6) After installation, please click "Streamer" icon.



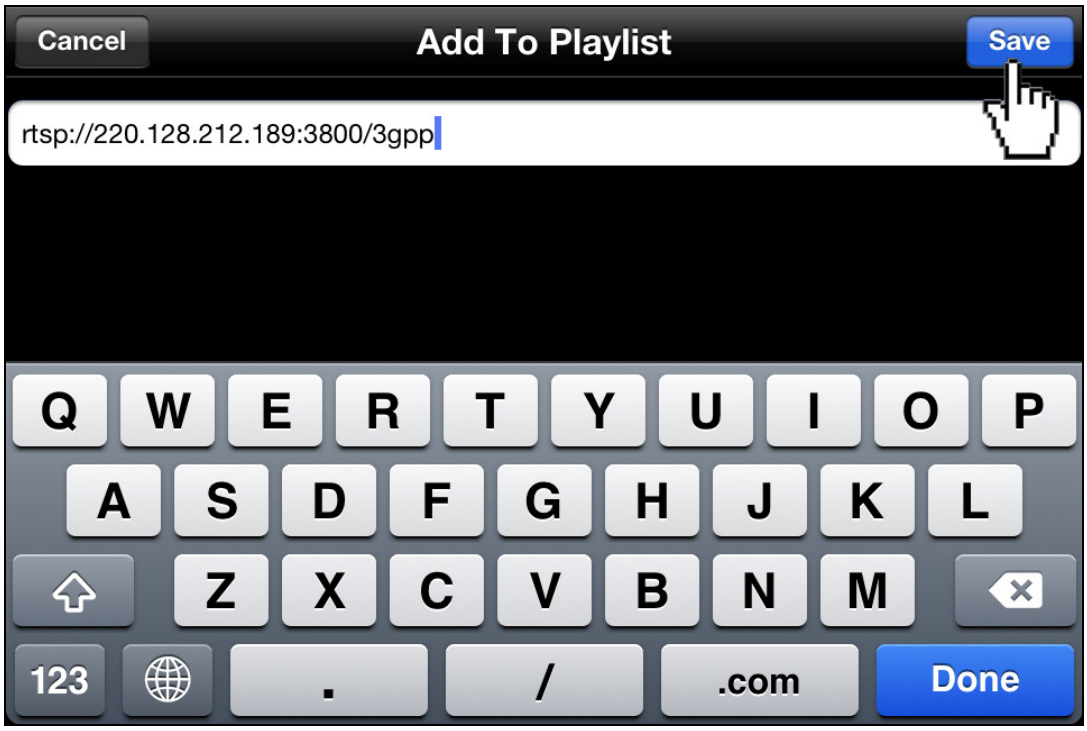
(7) Select “Bookmarks” in main menu.



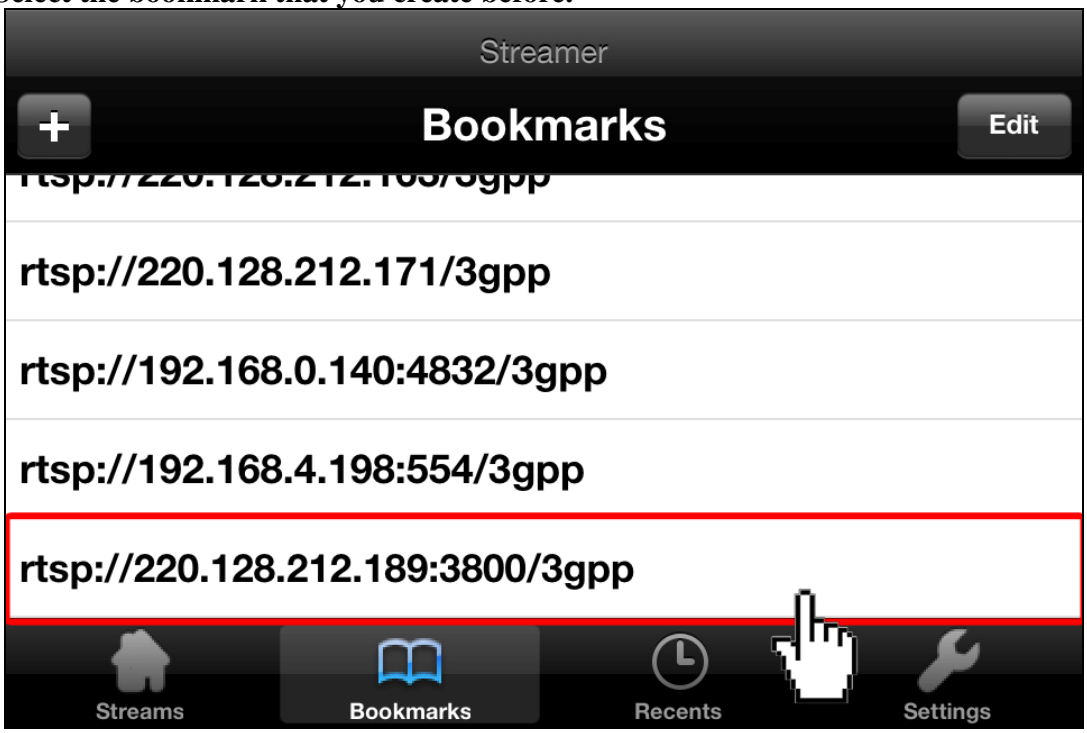
(8) Click ”+” to add 3GPP connection web page to bookmark.



(9) Type 3GPP connection RTSP URL, then click "Save". Please make sure RTSP port is correct. To check RTSP port number, please refer to setting page: [Setup] → [Network] → [Service] → [RTSP Setting] → [RTSP Port].

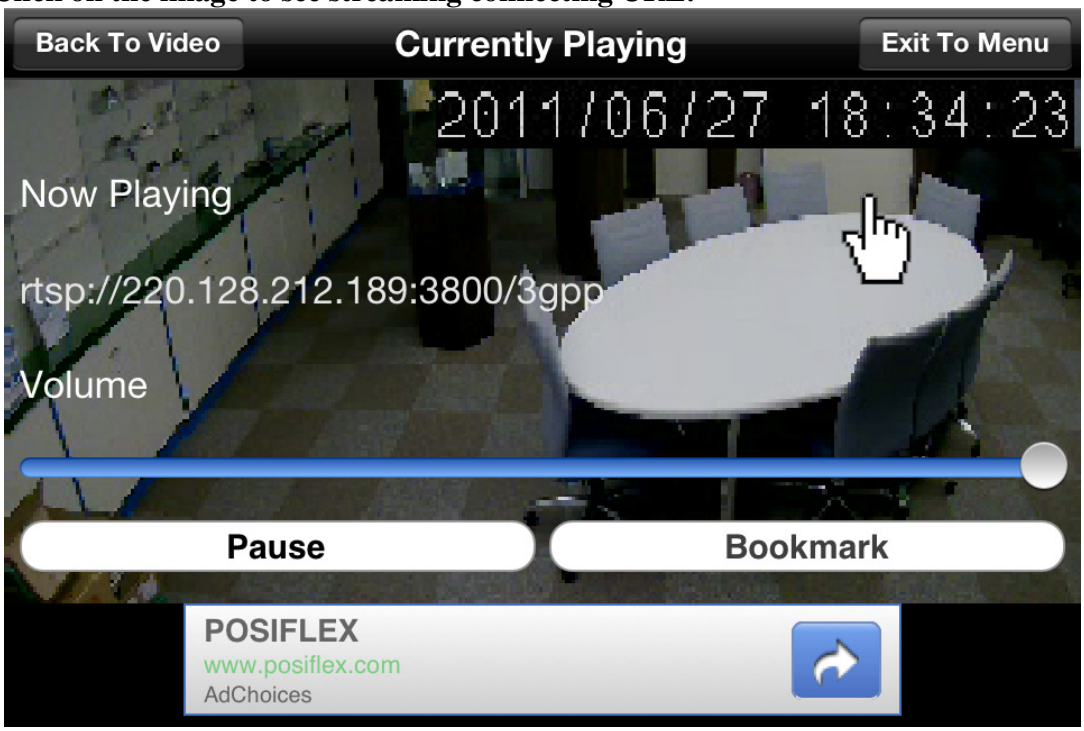


(10) Select the bookmark that you create before.



(11) Live stream will appear in your screen.

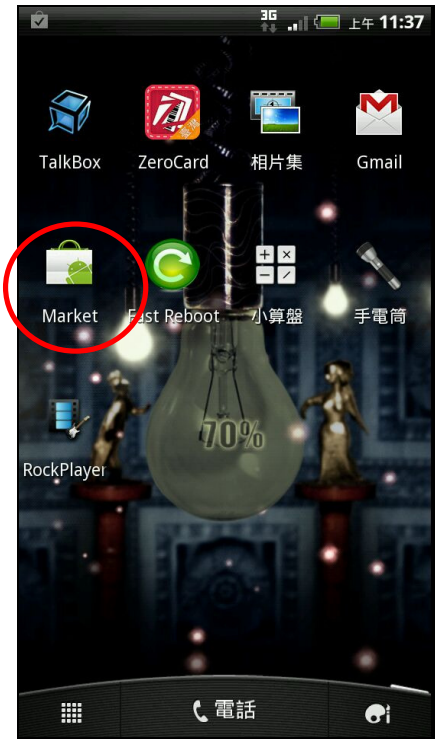
(12) Click on the image to see streaming connecting URL.



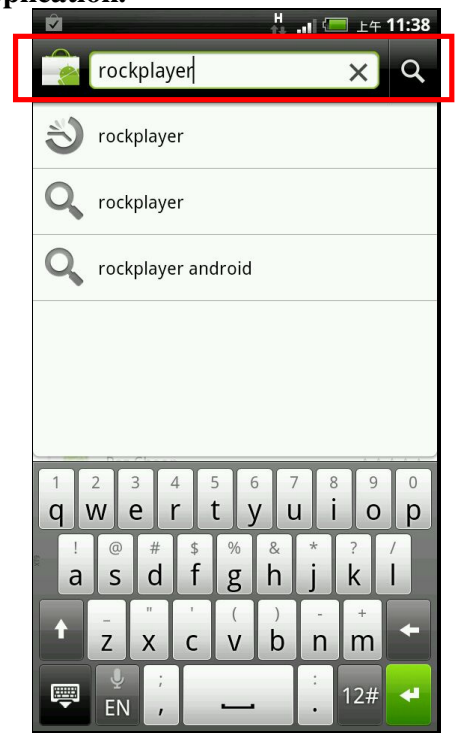
Appendix C – 3GPP on Android Phone

※ **Before using this function, please enable 3GPP service, set path : [Setup]→[Network]→[Service].**

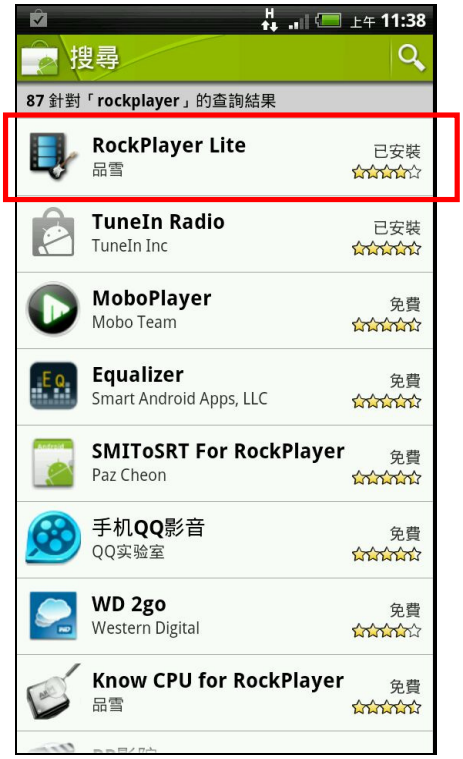
(1) Click "Market" application icon.



(2) Search "RockPlayer" application.



(3) Click “RockPlayer Lite”.



(4) Click "Free" button and to install the software.

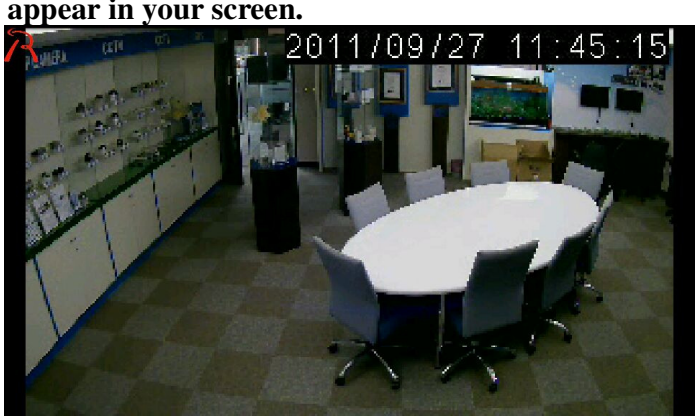
(5) After installation, start “Internet” application.

(6) Type 3GPP connection RTSP URL, then click go to icon. RTSP URL format is rtsp://cmera IP address:rtsp port number/3gpp.
For example, rtsp://220.128.212.189:3800/3gpp.
Please make sure RTSP port is correct. To check RTSP port number, please refer to setting page: [Setup] → [Network] → [Service] → [RTSP Setting] → [RTSP Port].

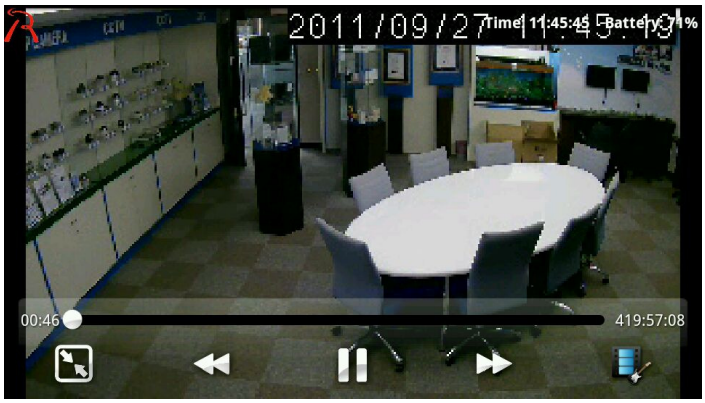
(7) Media player will ask for proper streaming player for RTSP streaming, please choose

“ RockPlayer Lite”.

(8) Live stream will appear in your screen.



(9) Click on the screen to access control tool bar.



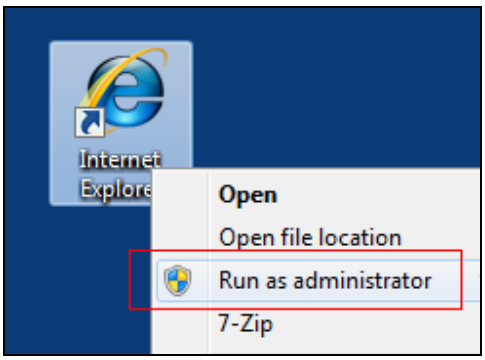
Appendix D – Specifications

GENERAL	
Image Sensor	1/2.8” Progressive CMOS
Lens	Vari-focal, f=4–10mm, F=1.6
Shutter Time	1/2–1/10000
Minimum Illumination	0.5Lux @ F1.2 (Color), 0.01Lux @ F1.2(B/W)
VIDEO	
Video Compression	H.264 & M-JPEG
Video Streaming	Triple streaming
Frame Rate	2048 x 1536 (QXGA) @ 18fps 1920 x 1080 (Full HD) @ 30fps 1280 x 720 (720p) @ 30fps
IMAGE	
Flip & Mirror	Yes
AGC, AWB, AES	Yes
BLC	Yes
Privacy Mask	Yes (3 areas)
WDR	Yes
DNR	2D Noise Filter
AUDIO	
Audio Compression	G.711 (PCM 8KHz 64kbit/s)
2way Audio	Yes
Audio In	3.5mm Phone jack x 1 / Mic x 1 (built in)
Audio Out	3.5mm Phone jack x 1
NETWORK	
Ethernet	10/100 Base T Ethernet (RJ-45)
Protocol	HTTP, HTTPs,TCP/IP, UDP/IP, ICMP, DHCP, PPPoE, DDNS, SMTP, FTP server, FTP client, NTP, Bonjour, QoS,UPnP, RTSP, RTP, RTCP, Multicast, RTSP over HTTP
Password Protection	Yes
Live Viewing User	20
Wireless	802.11 b/g/n Wireless USB dongle (Optional)
EVENT & ALARM	
Motion Detection	Yes
D/I & D/O	1 & 1
Event Notification	Yes
Event List	Yes
RECORDING & STORAGE	
Continuously Recording	Yes
Pre-alarm Recording	Yes
Post-alarm Recording	Yes
Backup Device	Micro SD (capacity up to 32GB) / External-USB storage media (capacity up to 32GB)
OTHERS	
SDK	Yes
Recording Software	Free bundle 32 CH recording Software
Video Output	BNC x 1
RS485	Yes
Power	DC 12V
PoE	Yes
Dimension (W x H x D)	64.6 x 52 x 105.8 (mm)
Weight	370(g)
Humidity	0% ~ 90 % RH
Operating Condition	0°C~ 50°C

Product FAQ

A. Web snapshot and recording doesn't work in windows 7?

Due to windows authority limitation, please use following procedure to fix this problem.
Right click on "Internet Explorer" icon and choose "Run as administrator". All operations on camera web page can work normally then.



B. After login camera, image page shows "connecting" message without showing image instead?

Please check following settings to fix.

Local Area Network (LAN)

1. Has FFDShow decoder software installed already?

(1) The very first time connecting to camera web page, system would ask to install FFDShow. Please install with default settings.

(2) Install FFDShow from product installation CD.

Internet (WAN)

2. Please check upload/download bandwidth and router setting.

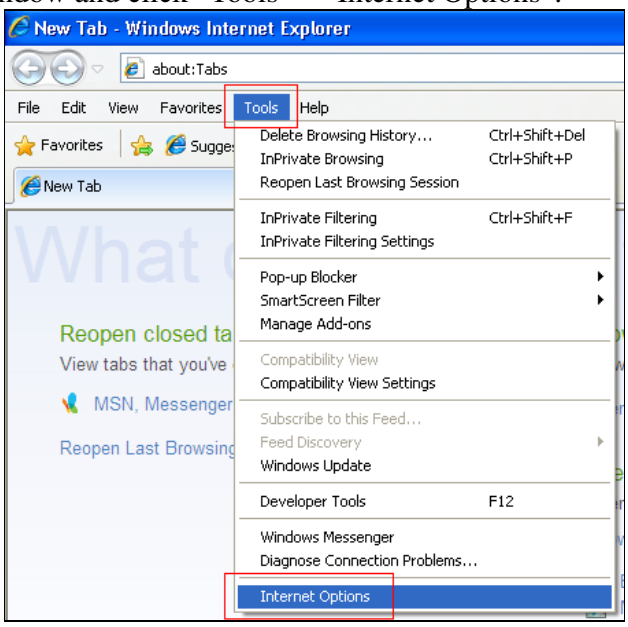
(1) Insufficient bandwidth may cause image unable to connect. Please check the networking bandwidth with your network service provider. Change IP camera **Bitrate** and **FPS** to moderate value to transfer.

(2) Router firewall may block connecting protocols. Please make sure **Web** and **RTSP** ports are added into port forwarding or NAT service of router.

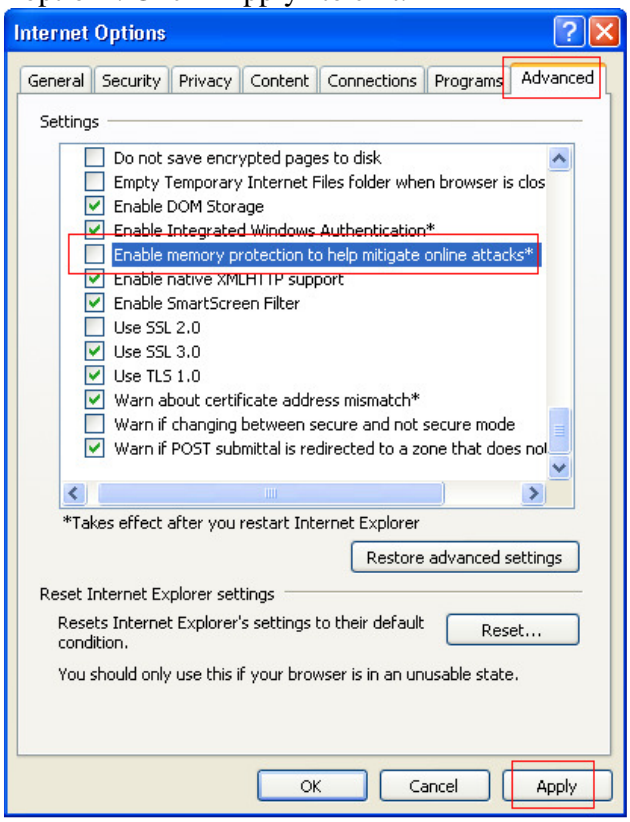
C. Unable to see image because of ActiveX unsuccessful installation

1. Disable memory protection of IE8, WinXP

(1) Open an IE window and click “Tools”→”Internet Options”.



(2) Click on “Advanced” tag and disable “**Enable memory protection to help mitigate online attacks**" option”. Click “Apply” to exit.

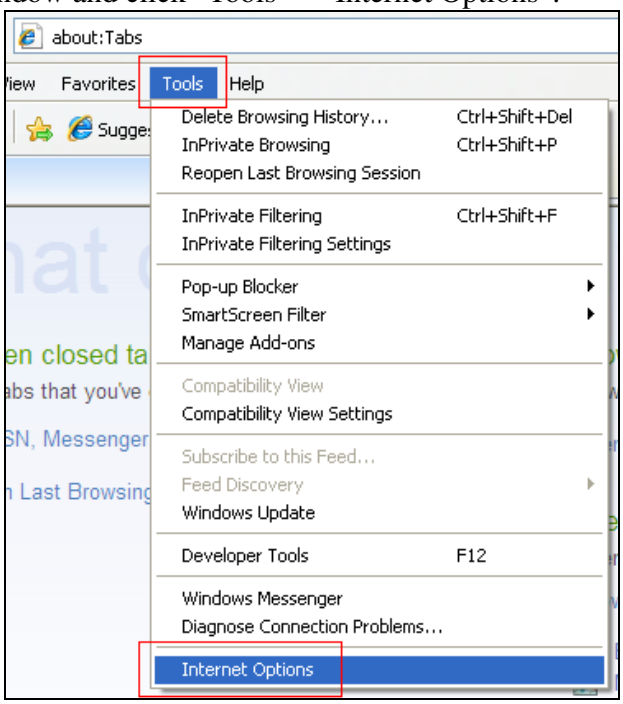

Internet Options
General Security Privacy Content Connections Programs Advanced
Settings
Do not save encrypted pages to disk
Empty Temporary Internet Files folder when browser is clos
Enable DOM Storage
Enable Integrated Windows Authentication*
Enable memory protection to help mitigate online attacks*
Enable native XMLHTTP support
Enable SmartScreen Filter
Use SSL 2.0
Use SSL 3.0
Use TLS 1.0
Warn about certificate address mismatch*
Warn if changing between secure and not secure mode
Warn if POST submittal is redirected to a zone that does not
*Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings
Resets Internet Explorer's settings to their default condition.
Reset...
You should only use this if your browser is in an unusable state.
OK
Cancel
Apply

(3) Restart IE to affect setting.

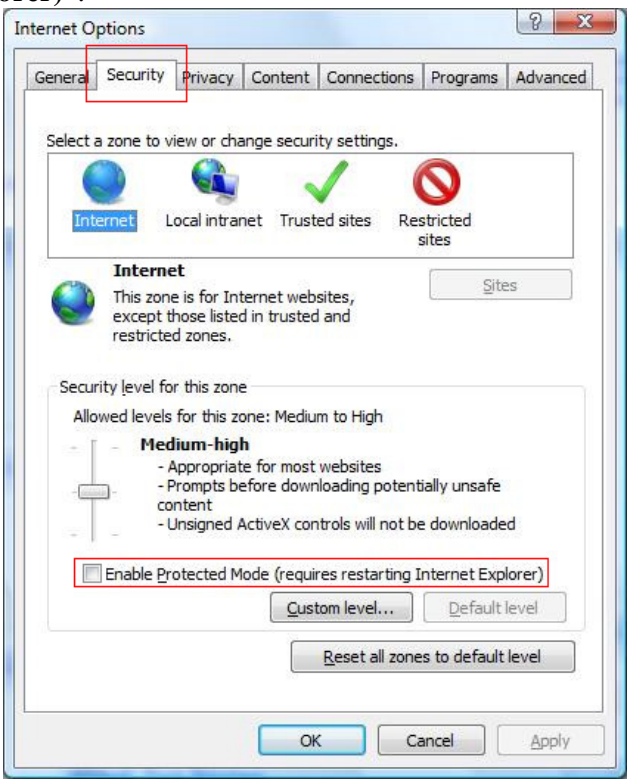
(4) Reconnect IP camera web page, ActiveX control plug-in is ready to install.

2. Disable IE protected mode of IE8, Win7

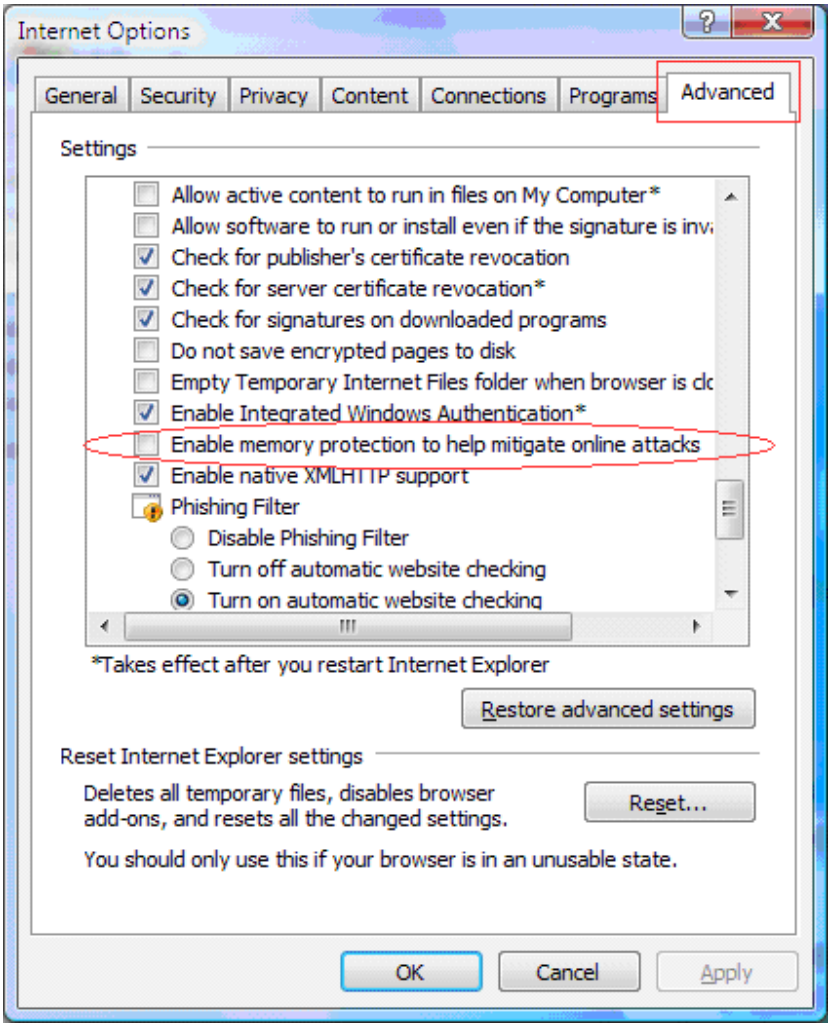
(1) Open an IE window and click “Tools”→”Internet Options”.



(2) Click on “Security” tag, disable “**Enable Protected Mode (requires restarting Internet Explorer)**”.



(5) Click on “Advanced” tag and disable “**Enable memory protection to help mitigate online attacks**" option”. Click “Apply” to exit.

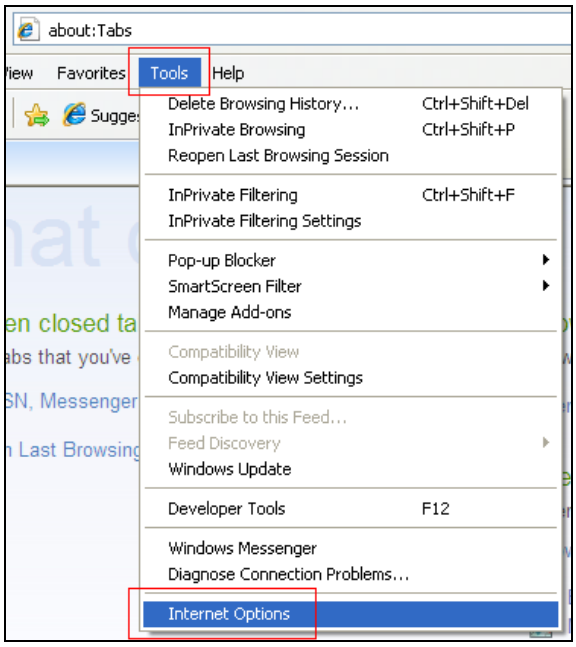

Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Allow active content to run in files on My Computer*
Allow software to run or install even if the signature is inv
Check for publisher's certificate revocation
Check for server certificate revocation*
Check for signatures on downloaded programs
Do not save encrypted pages to disk
Empty Temporary Internet Files folder when browser is cl
Enable Integrated Windows Authentication*
Enable memory protection to help mitigate online attacks
Enable native XMLHTTP support
Phishing Filter
Disable Phishing Filter
Turn off automatic website checking
Turn on automatic website checking
*Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings
Deletes all temporary files, disables browser add-ons, and resets all the changed settings.
Reset...
You should only use this if your browser is in an unusable state.
OK
Cancel
Apply

(6) Restart IE to affect setting.
(7) Reconnect IP camera web page, ActiveX control plug-in is ready to install.

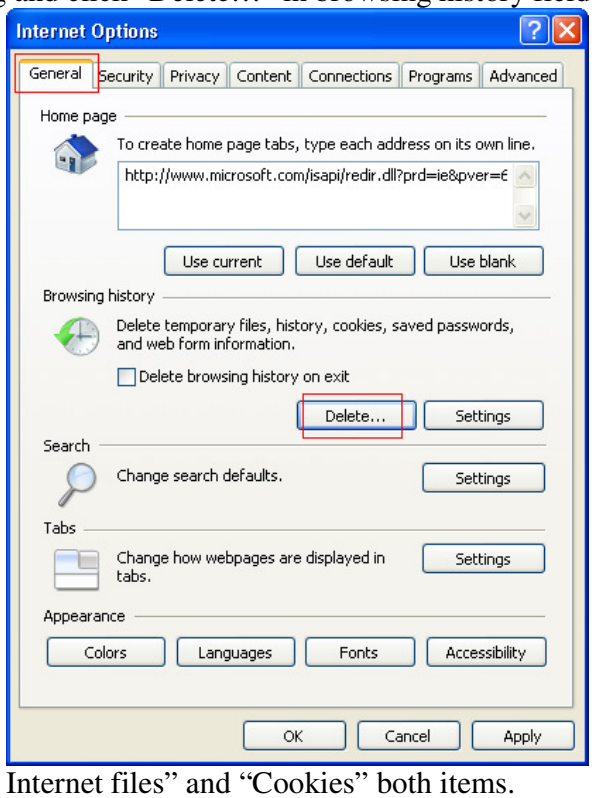
D. Web page does not display correctly after firmware upgrade.

This problem may cause by temporary internet cache, please follow procedures to fix.

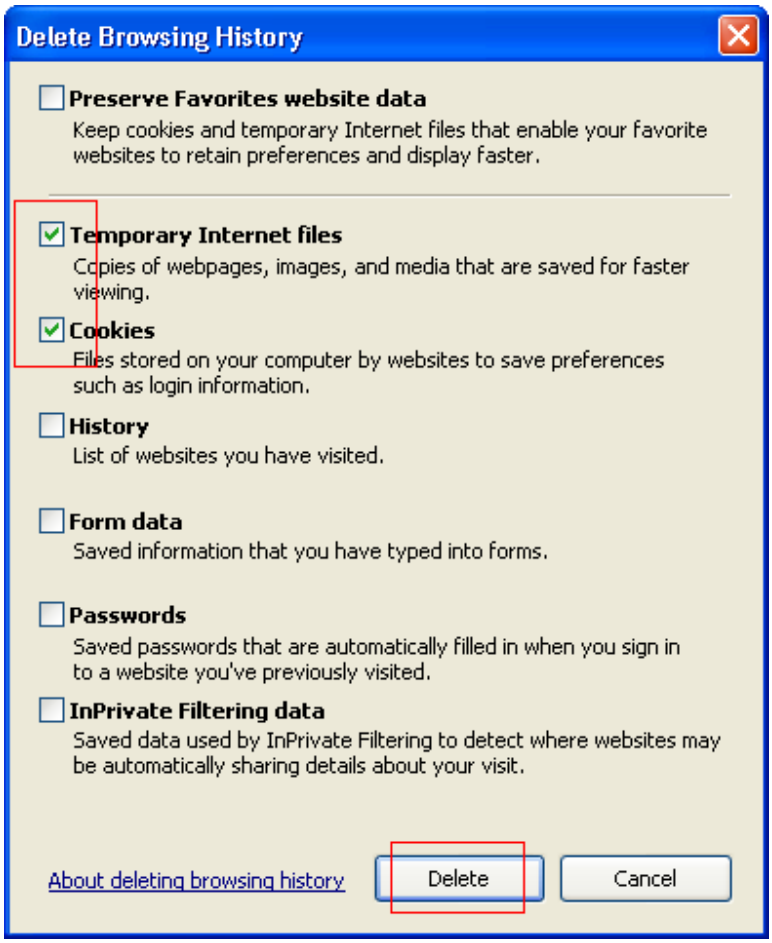
(1) Open an IE window and click “Tools”→”Internet Options”.



(2) Click “General” tag and click “Delete…” in browsing history field.



(3) Delete “Temporary Internet files” and “Cookies” both items.


Delete Browsing History
Preserve Favorites website data
Keep cookies and temporary Internet files that enable your favorite websites to retain preferences and display faster.
Temporary Internet files
Copies of webpages, images, and media that are saved for faster viewing.
Cookies
Files stored on your computer by websites to save preferences such as login information.
History
List of websites you have visited.
Form data
Saved information that you have typed into forms.
Passwords
Saved passwords that are automatically filled in when you sign in to a website you've previously visited.
InPrivate Filtering data
Saved data used by InPrivate Filtering to detect where websites may be automatically sharing details about your visit.
About deleting browsing history
Delete
Cancel

(4) Restart IE to affect setting.
(5) Reconnect IP camera web page.

E. Unable to open camera web page but SecuUtility could search IP camera information under direct connection between PC and IP camera.

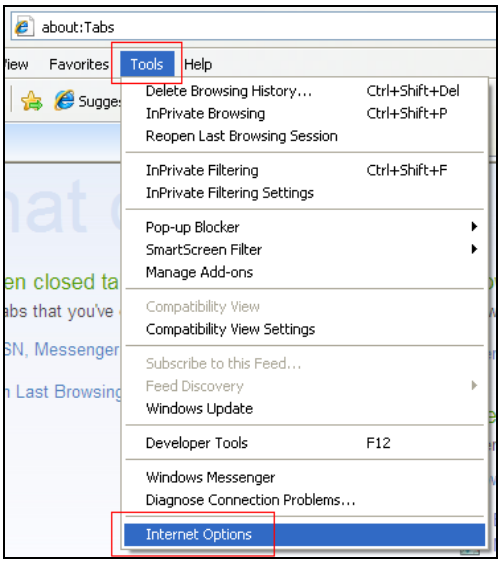
This problem may cause by following reasons:

1. Does PC and IP camera set in the same network segment?

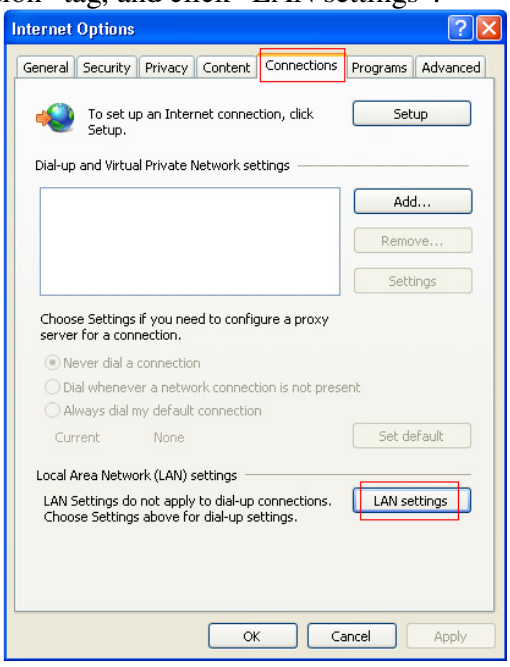
Please refer to "Setup" section of user manual.

2. Does proxy setting enable?

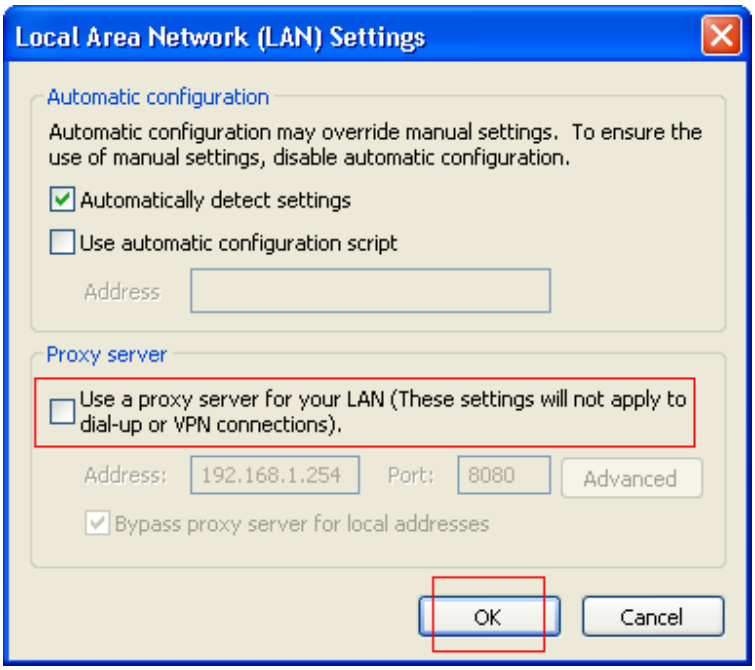
(1) Open an IE window and click "Tools"→"Internet Options".



(2) Switch to “Connection” tag, and click “LAN settings”.



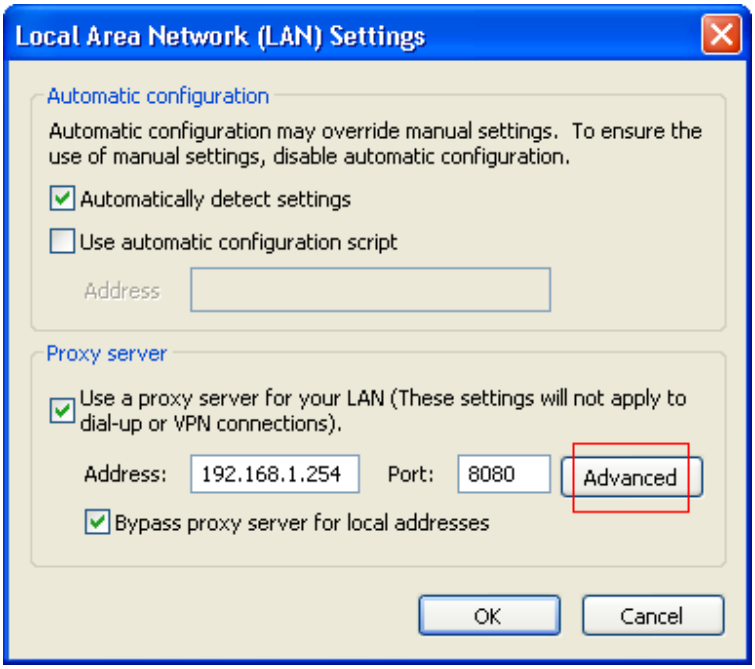
(3) Disable "Use a proxy server for your LAN", then click [OK] button.


Local Area Network (LAN) Settings
Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address: 192.168.1.254 Port: 8080 Advanced
Bypass proxy server for local addresses
OK
Cancel

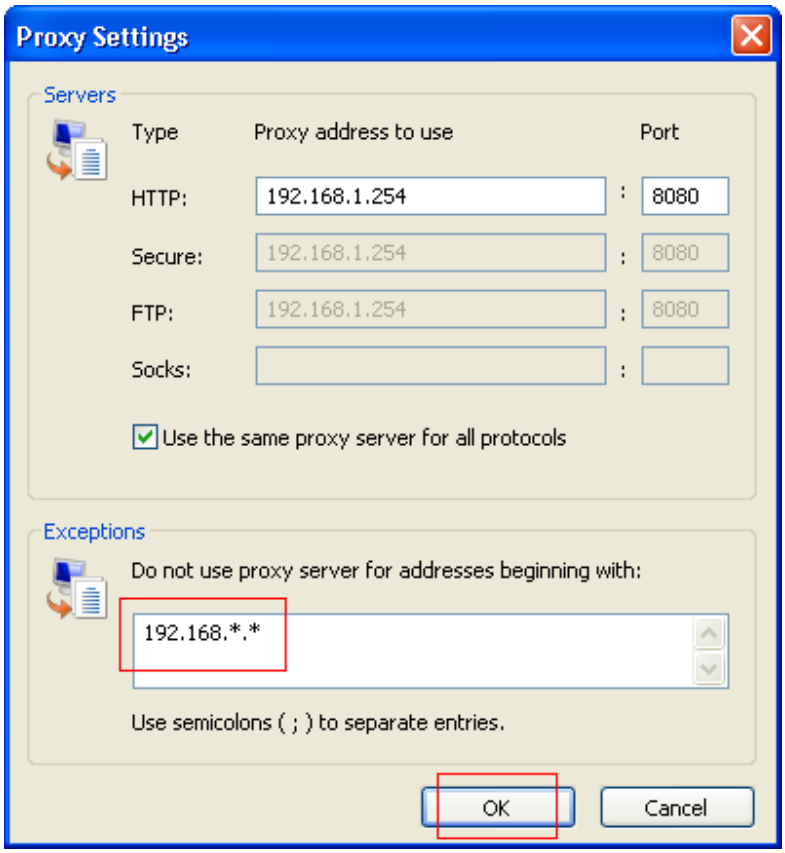
(4) Restart IE to affect setting.
(5) Reconnect IP camera web page.

※ To connect IP camera without through proxy server in LAN, please follow procedures:

(1) Click "Advanced".


Local Area Network (LAN) Settings
Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address: 192.168.1.254 Port: 8080 Advanced
Bypass proxy server for local addresses
OK
Cancel

(2) Fill in "**192.168 .*.***" in exceptions, then click "OK" to exit.



(3) Restart IE to affect seeting.
(4) Reconnect IP camera web page.